Brooke THE STOOKE

# PROBLEMES OF ARISTOTLE, with other Philosophers

and Philitions.

Wherein are contained divers questions, with their answers, touching the estate of mans bodie.



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ASTIMATION SOLVEN

THIST





### To the Reader.



Very man doth woonder (gentle Reader) at an Eclipse of the Sunne, or of the Moone, and gazeth as a Blazing Starre, and beholdeth with admiration, an exquisite picture, drawen with the pensill of a skilfull hand; yea all novelties do please, be they never so small. But if they

be once common, be they never so great woonders, no man vouchsafeth to give them the looking on. But then as Seneca doth
say: Non est Æthiopis intersuos insignitus color. The
selfesame doth happen in man, and in the woonderfull workmanship of his bodie, and unspeakable excellencie of his soule: for
if we regard his excellencie, he doth surpasse all creatures under
heaven; and therefore the Aegyptians being ranished with the
contemplation of mans dignitie and perfection, doubted not to
call him a terrestrial god, and celestial creature, a messenger
of the gods, Lord and master of things belowe, and a familiar
friend unto those who live above, a minute of nature, and as
Seneca doth call him, Natures darling.

It is faid, that after that Phidias a most famous carner had made Mincruaes shield, he engraved his owne portraiture so lively, and deepely in the same, that it could never be taken out againe, without the defacing of the whole worke. So God him-

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#### TetheReader.

felfe a far more excenent workman than Phidias, after he had made the vninerfall world, all creatures therein, for a token of his skill, drew it anew in a small compasse, as an abridgement of all his works, to wit, when he made men, who is a Microcofme or little world, and in him printed as owne image and similisude, so linely, that no power what soener is able to blot it out, This image and similitude is the foule and understanding. which he would never have printed in man, valeffe he had first made him a bodie of a substance fit and apt to receive that impression, and unlesse also be had so skilfully framed it, shat it Should be woorshie to receive so great an ornament, as the ynterstanding is. And sherefore the bodie of man is made of a plexion most pure and delicate, and in shape comely and fulls and yet notwithff anding all thefe perfections which ash whimselfe, few or none take delight in the studie of elfe, on carefull to know the substance, state, condition, quatiese, and see of the parts of his owne bodie, although he be the honor of nature, and more to be admired than the strangest and rarest woonder that ever happened. The cause of this is no other, but bicaufe mans nature delighteth in nouelties, and neglectesh to search out the causes of those things which are common.

I have therefore thought good, to give thee in a knowen toong, this little booke, written by the deepest of all Philosophers, who teachesh the vse of all the parts of mans bodie, their nature, qualitie, propertie, and substance, which may bring thee in reading of it, if reade it thou wilt, no lesse delight than profit, nor no lesse prosit than delight.

Farewell.

Falix qui potuit rerum cognoscere causas.

## The first Probleme.

#### Question.



Mongs all living creatures, why hash Man onely his face and countenance lifted op towards the heaven?

Answer.

Vnto this question there are divers answers: first, it proceedeth from the will of the creator himselfe. And al-

though that answer be true, yet in this our purpose it seemeth not to be of force, bicause that so all question

might eafily be diffolued.

Secondly, I answer, that for the most part every works man doth make his first worke woorst, and then his second better, and so God creating all other beasts before man, gave them their face looking downe to the earth, and then secondly he created man, as it doth appeare in Genesis, vnto whom he gave an honest shape listed up vnto heaven. But yet this answer doth not seeme to be to the purpose, bicause it is drawne from Divinitie, and doth also derogate from the goodnes of God, who maketh all his works perfect and good.

Thirdly, it is answered, that man onely among all liuing creatures is ordained vnto the kingdome of heauen, and therefore hath his face eleuated and lifted vp vnto heauen, bicause that despising worldly and earthly things, he ought to contemplate on heauenly things.

Fourthly, that the reasonable soule is like vnto angels, and finally ordained towards God, as it appeareth by Auerroes in the first de anima, and therefore he hath a figure looking vpward.

Fiftly, that a man is a microcosme, that is, a little world, as it pleaseth Aristotle to say in the eight of his

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Phyl.

Thyf. and therefore he doth command all other living

creatures, and they obey him.

Sixtly, it is answered, that naturally, there is vnto every thing, and every worke, that forme and figure given, which is fit and proper for his motion; as vnto the heaven roundnes, to the fire a pyramidall forme, that is, broad beneath and sharpe towards the top, which forme is most apt to ascend: and so manhath his face up to he even, to behold and woonder at Gods works.

Question. Why is the head of beafts hairie?

Answer. The answer according vnto the opinion of Constant is, that the haires are an ornament of the head, and of the braine, and the braine is purged and euacuated of groffe humors, by the growing of the haire, from the highest vnto the lowest parts, which passe through the pores of the exterior sless, and do become drie and are converted into haires. This appeareth to be true, bicause that in almans body there is nothing drier then the haires, for they are drier then the bones, as Alberrus Magnus doth assume, bicause that some beasts are nourished with bones, as dogs, but no beast can digest seathers or haire, but do voide them vndigested, and are so drie that they are vnsit for nutriment.

Secondly, it is answered, that the braine is purged fowre maner of waies, first, of superfluous waterie humors, by the cies: from melancholy, by the cares: of choler by the nose: of sleume by the haire, and that is

the intent of the Philition.

Question. Why have men longer haire on their head then

other lining creatures.

Answer, Ariff, 3. de generat animal. saith, that man hath the moistest braine of all living creatures, from the which the sweat proceedeth, which is converted into the long haire of the head.

Secondly, it is answered, that the humors in man are

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fat, and do not become drie easilie, and therefore the haire grow long in him; in other beasts the humors are easilie dried, and therefore their haire grow not so long.

Question. Why do the haire take deeper roose in mans

skin, then in other lining creatures?

Answer. Bicause they have greater store of nourishment in man, and therefore grow more into the inward part of man. And this is also the reason, why in other beasts the haire doth alter and change with the skin, and not in man, valesse it be sometime in a scarre or wound.

Question. Why have women longer haire then men ?

Answer. Bicause women are moister then men, and more flegmatick, and therefore there is more matter of haire in them, and by a consequence, the length also of their haire doth follow. And furthermore this matter is more increased in women then in men, from the interior parts, and especially in the time of their month-lie tearmes and flowres, bicause the matter doth then ascend, whereby the humor which breedeth the haire doth encrease. And Albertus doth saie, that if the haire of a woman in the time of hir flowers be put into dung, a venemous serpent is engendred of it.

The second answer is, bicause women want beardes, and so the matter of the beard doth go into the matter

of haire.

Question. Why have some men soft haire, and some men hard?

Answer. We answer with Aristotle, that the haire hath proportion with the skin: of which some is hard, some thick, some subtill and soft, some grosse: therefore the haire which groweth out of a thicke and grosse skin, is thicke and grosse; and that which groweth of a subtil & sine, is sine and soft. Also when the pores are open, then there commeth soorth much humor, and therefore

hard haire is ingendred: and when the pores are strait, then there do grow soft and fine haire. And this doth Aristotle shew in men, in whom we have an evident to-ken, bicause women have softer haire then they, bicause that in women, the pores are shut and are straite by reafon of their coldnes.

Secondly, bicause that for the most part, cholericke men have harder and thicker haire then others, by reason of their heate, and bicause the pores are cuer open in them, and therefore also they have beards sooner then others. Whereupon the Philosopher faith, that those beafts which have hard haire are bouldest, bicause that such haire proceedeth of heat and choler, the which choler maketh men to fight, Aristotle also giueth example in the Beare and the Boare : and contrariwise those beafts which have foft haire, are fearefull, bicause they be cold, as the Hare and Hart. Aristoale doth also give another reason of the softnes and hardnes of the haire, drawne from the climat where a manis borne: bicause that in a hot region harde and groffe haire is ingendred, as it appeareth in the Æthiopians, and the contrarie is true in a colde countrey, as towards the North.

Question. Why have some men curled haire and some

fmoorh ?

Answer. The answer is, that the cause of the curling of the haire is great aboundance of heate, so that if there be much heate in a man, then his haire doth curle, and grow vpward. And a signe of this is produed true, bicause that somtimes a man doth enter into a bathe smooth haired, and afterward by the bath becommeth curled. And therefore the keepers of bathes have often curled haire, and also the Athiopians and cholericke men. But the cause of the smoothnes, is the abundance of moist humours, which tend downward, and a proofe

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of this is, bicaufe that women for the most part have fmooth haire, bicause they have much humiditie in them and small heate.

Question. Why do women shew their ripenes by the haire of their prinie part, and not else where, but men in the breast.

and woman there is aboundance of humiditie in that place, but more in women, bicause men haue the mouth of the bladder in that place, wherein the vrine is contained, of the which the haire in the breast is ingendred, and about the nauell. But of women is saide, that the humiditie of the bladder, and of the matrix or wombe is joyned and meeteth in that low scerer place, and therefore is dissolved and separated in that place, through much vapors and sumes, which are the cause of haire, and the like doth happen in other places where haire is, as vader the armes.

Question. Why have not women beards?

· Answer. Bicause they want heat, as it appeareth also in some esseminate men, who are beardles for the same cause bicause they are of the complexion of women.

Question. Why doth the haire grows to those which are

banged?

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Answer. Bicause their bodies are exposed to the sun, the which through his heate, doth dissolue all the moissure into a sume or vapour, of which the haire doth grow and increase.

Question. Why is the baire of the beard groffer and thicker then elfe where, and the more men are shauen, the thicker and

barder is growesh ? etterant tunella lo rede son

Answer. Bicause that according vnto the rule of the Phisitian, by how much the more the humor or vapour of any liquor is dissolved and taken away, by so much the more the humor remaining doth drawe to the same place; and therefore how much the more the haire is shaden.

shauen, so much the more the humors gather thither, and of them the haire is engendred, and do there also waxe hard.

Question: Why are women smooth and faire in respect

of men?

Answer. The answer is according vnto Ariff. 1. de generat. animal. bicause that in women all humiditie and superfluitie, which are the matter and cause of the haire of the body is expelled with their monthly tearmes, the which superfluity remaineth in men, and through vapors doth passe into haire. And a signe of this is, bicause women haue seldome any running at the nose, or impostume, or vicer, bicause such matter is expelled also. And we see some old women begin to haue a beard in their old age, that is after fortie or fiftie yeeres of age, when their flowers haue ceased, as Arifforde doth teach 9, de animalib.

Question. Why dosh man onely about all other creasures waxe boary and gray, as Protagoras and Aristotle affirme?

Answer. The answer according vnto the Philosophers is, bicause that man hath the hottest hart of all living creatures: and therefore nature being most wife, least man should be suffocated through the heat of his hart, hath placed the hart which is most hot, under the brain which is most colde, to the end that the heat of the hart may be tempred with the coldnes of the braine; and contrariwife, that the coldnes of the braine, may be heated with the heate of the hart, that thereby there might be a temperature in both. A figne to proue this, is bicause that of all living creatures, man hath the woorst breath if he become to his full age. Furthermore man doth consume halfe his life in sleeping: which doth proceede of the great excelle of the coldnes and moisture of the braine, and by that meanes doth want naturall heate to digest and consume that moistnes:

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moistnes : the which heate he hath sufficiently in his youth, and therefore in that age is not graye, but in his olde age when heat faileth, and therefore the vapours ascending from the stomack, remaine yndigested and vnconfumed for want of naturall heate, and then putrifie, of which putrifaction of humors the whitenes doth follow, which is called graynes or hoareness. Whereby it doth appeare that hoarenes is nothing elfe, but a whitenes of the haire, caused by the putrifaction of humors about the rootes of the haire, through the want of naturall heate in olde age. Sometimes also graynes is caused by the naughtines of the complexion, which may well happen in youth, and fometimes by reason of the movitnes vndigested, and fometimes through ouer great feare or care, as it appeereth in Marchants, Saylers, theeues, from thence commeth those verses. Cura, &c.

Cura facis canos quamuis homo non habes annos.

Question. Why dosh red hayre grow white sooner then other?

Answer. According vnto the opinion of Aristotle, bicause that rednes is an infirmitie of the hayre, for it is engendred of a weake and infirme matter, that is to say, of a matter corrupted with the flowers of the woman, and therefore they waxe white sooner then black hayre.

Question. Why do Wolues growe griflie?

Answer. The better to vinderstand this question, note the difference betwixt graynes and grissines, bicause that graynes is caused through the defect of a natural heate, but grissines through denouring and eating, as Aristotle witnesseth, 7. de animal. The Wolfe being a very denouring beast, and a great eater, he letteth it downe gluttonously without chewing, and that at once ynough for three daies: of which meate grosse vapours

vapours are engendred in the Wolues body, and by a consequence griflines. Secondly, graynes and griflines do differ, bicause graynes is onely in the head, and griflines over all the body. Question. Why do horfes grow grifly or graye?

Answer. According vnto Aristoile, bicause they are for the most part in the funne, and in his opinion also, heate doth accidently cause putrifaction, and therefore of that kinde of heat, the matter of the haire doth putrifie, and by a consequence, they are very quicklie pild.

Question. Why do men become balde, and trees fall their leaves in winter ?

Answer. Aristotle doth give the same reason for both, bicause that the want of moy flure in both, is the cause of the want of the hayre & of the leaves. And this is proved, bicause that a man becometh balde through Venerie, bicause that leachery is a letting forth of naturall humiditie & heate. And so by that excesse in carnal pleasure, moysture is consumed, which is the nutrimée of the hayre, and therefore baldnes doth infue. And this is euidently prooped in Eunuches, and women which do not growe balde, bicause that they do not depart from that moistnes. And therupon Eunuches are of thecomplexion of women.

But if you aske why Eunuches be not balde, nor have not the gowte, as Hippocrates faith? The answer is according vnto Galen, bicaufe the cause of baldnes is drines, the which is not in Eunuches, bicause they want their Rones, the which do minister heate vnto all the parts of the bodie, and the heate doth open the pores, the which

being open, the haire doth fall.

Question. Why are not women balde?

Answer. Bicause they are cold and moift, which are the cause that the haire remaineth: for moistnes doth

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give nutriment vnto the haire, and the coldnes doth binde the pores.

Question. Why are bald men deceitfull ? according onta

she verfe:

Sinon vis falli, fugia s confortia calui.

Answer. Bicause baldnes doth witnesse a cholerike complexion, which is hot and drie, and cholerike men are naturally deceitfull, according vnto that verse.

Hirsutus, fallax, irascens, prodigus, audax.

And therefore it followeth, a primo ad visimum, that bald men are deceitfull and craftie.

Question. Why are not blinde men naturally balde?

Answer. Bicause that according vnto Aristotle, the eie hath much moysture in him, & that moisture which should passe through by the substance of the eies, doth become a sufficient nutriment of the haire, and therefore they are seldome balde.

Question. Why doth the haire stand on ende when men

are afraide ?

nametar.

Answer. Bicause that in time of feare, the heat doth go from the outward parts of the body vnto the inward, to the intent to helpe the hart, & so the pores in which the haires are fastened are shut vp, after which stopping & shutting vp of the pores, the standing vp of the haire doth follow, as it is seene in brute beasts, as dogs, wilde bore, and peacockes.

## Of the head.

Question. 7 7 Hy is mans head round?

Most fit to receive any thing into it, as Aristotle doth affirme, 2. de cel. and the head doth containe in him the five sences. This is also seene in a material spheare.

Question. Why is she head hard?

Anfwer.

Answer. Aristotle saith, bicause he doth containe in him the moissest part of the living creature: and also bicause the braine may be defended thereby as with a shield.

Question. Why is not the head absolutely round, but

formerchat long?

Answer. To the ende that the three creekes or cels of the braine might be the better distinguished, that is, the fantasie in the forehead, the discoursing or reasonable part in the middle, and the memorie in the hindermost part.

Question. Why doth a man lift op his head, towards the

beauen when he dosh imagine?

Answer. Bicause the imagination is in the forepart of the head or braine, and therefore it lifterhyp itselfe, that the creekes or cels of the imagination may be opened, and that the spirits which helpe the imagination, and are fit for that purpose, having their concourse thither, may helpe the imagination.

Question. Why doth a man when be museth, or thinke

on things past, looke downe towards the earth?

Answer. Bicause the cell or creeke which is behinde, is the creeke or chamber of memorie, and therefore that looketh towards heaven, when the head is bowed downe, and so that cell is opened, to the end that the spirits which perfit the memorie should enter in.

Question. Why is not the head fleshie like vnto the

other parts of the body ?

Answer. Bicause that according vnto Aristotle, the head would be too heavie, and could not stand stedfast-ly, and therefore it is without sless. Also a head loaden with sless doth betoken an euill complexion.

Question. Why is the bead subject with aches and

griefer. adollis proper of school of siles T. ananot our

Answer. According vato Constant, by reason of euill humours,

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humours, which proceede from the stomacke, and afcend vnto the head, and disturbe the braine, and so
cause the paine in the head. And somtime it proceede th
of ouer much filling of the stomacke: bicause that according vnto the opinion of Galen, two great sinewes
passe from the braine to the mouth of the stomack, and
therefore these two parts do suffer griefe alwaies togither. Sometime the ach doth proceede of drinking
strong wine, or suming meats, as garlike and onions, &
sometime of sleume in the stomacke, whereof spring
quotidian seuers.

Question. Why have women the headach more of mer then

men ?

Answer. Albertus saith, that it is by reason of their monthly tearmes, which men are not troubled with, and so a most vncleane and venemous sume is dissoluted, the which seeking a passage vpward, doth cause the head to ake.

Question. Why is the braine white?

Answer. There is two answers. The first, bicause it is cold, and coldnes is the mother of white, as the Philosopher doth teach.

The second, bicause it may receive the similitude and likenes of all colours, which the white colour can

best do, bicause it is most simple.

Question. Why are all the fences in the head?

Answer. Bicause (as Albersus saith) the braine is there, of which all the sences do depend and are directed by it, & by a consequent it maketh all the spirits to feele, and by it all the members are governed.

Question. Why cannot a man escape death, if the braine

or hars be hurs ?

Answer. Bicause the hart and the braine are two of the principallest parts which conserve life: and therefore if they be hurt, there is no remedie lest for cure. Question.

Question. Why is the braine most moyst ?

Answer. Bicause it may easily receive every impression, which moisture can best do, as it appeareth in waxe, which doth easilie receive the print of the seale when it is soft.

Question. Why is she braine cold?

Answer. This is answered two waies. First, bicause that by his coldnes it may cleare the understanding of man, and make it subtile. Secondly, that by the coldnes of the braine the heate of the hatt may be tempered: & this is Aristotles intent, lib. de animal.

## Of the Eyes.

Question. T & 7 Hy hane we one nofe and two eyes?

V V Answer. Bicause the sight is more necessarie for vs then the smelling: and therefore it doth proceede of the goodnes of nature, that if we receive any hurtor losse of one eie, that yet the other shoulde remaine, vnto the which the spirit, with which we see, called spiritus visious, is directed when the other is out, as it is plaine in the common perspective.

Question. Why have children in their youth great eies,

and why do they become smaller and leffer in their age ?

Answer. According vnto Aristotle de generat, it proceedeth from the great humiditie of the braine, and for the same cause children are verie sleepie.

Queftion. Why do blacke eies fee well in the day time.

and badly by night?

Answer. According vnto the opinion of Aristotle, it proceedeth from the want of fire, and for the assembling and meeting togither of light and humour in the eies, which are lightned by reason of the sunne, which doth lighten the eysic humour of the eie and purge it, and in the absence of the sunne those humours become darke

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darke and blacke, and therefore the fight not fo good.

Question. Why doth the blewish graye eie feebadty in

she day sime, and well by night?

Answer. Bicause (faith Aristotle) grainesse is light and thining of it felfe, and the fpirits with which we fee are weakned in the day time, and ftrengthened in the doth expell the things in the cies, the water night.

Question. Why bemens eies of diners fores?

Answer. This proceedeth, faith Aristotle, by reason of the diversitie of humours. The cie therefore hath foure couerings, and three humors. The first couering is called Consolidative, which is the outermost, which is ftrong and far. The second is called a hornieskin or couering, to the likenes of a horne, and that is a cleere covering. The third is called Vuez, of the likenes of a blacke grape. The fourth is called a Cobweb: but according vnto the opinion of fome the cic doth cofift of feuen coverings or skins, and three humors. The first humor is called Albugineus, for the likenes vnto the white of an egge. The second Glaciall, that is like vnto yce or cristalline. The third Vitreus, that is cleere like a glaffe: And that divertitie of humours caufeth thediuerfitie of cies.

Question. Why are men which have but one eie good Archers, & whytda good Archers commonly (hus one eie, & why de

fuch as behold the stars looke thorow a trunke with one cie? Answer. This matter is handled in the perspective art, and the reason is, as it dooth appeare in the books of causes, bicause that every vertue and strength united and knir togither, is stronger then it selfe dispersed and scattered. Therefore all the force of seeing dispersed into two cies, the one being shut, is gathered voto the other, and to the fight is fortified in him, and by a consequence he doth see better and certainer with one cie, being thur, than both being open and and and made Question. baa

Question. Why do fuch as drinke much and laugh much

bed reares ?

Apfwer. Bicause that whilest they drinke and laugh without measure, the aire which is drawen in doth not palle out through the windpipe, & fo with force is direred and fene to the cies, and by their pores palling out, doth expell the humors of the eies, the which humors

being fo expulled, do bring teares.

miditie of a teare and of vrine, are of one and the fame nature. And therefore where weeping doth increase, there wrine doth diminish. And that they be of one nature it is plaine by the tafte, bicaufe they are both falt. Queltion. Why do fome which have cleere eies, fee no-Caballan in soladi ...

thing at all?

Answer. By reason of the opilation, and naughtines of the finewes with which we fee. For the temples being destroied, the strength of the fight cannot be carried from the braine vato the eie. As the Philosopher doth Beach, lib.de fenf. fenfato.

- Question. Why is the electere and smooth, like unto a

glaffe ?

Answer. Bicause the things which may be scene, are eurer beaten backe from a smooth thing then otherwife, that thereby the light should be firengthened.

Secondly I answer, it is bicause the eie is very moist, above all the parts of the body, & of a watrish nature. And as the water is electe & smooth, to likewife the cie. Queltion. Why do men which have their eies deepe in shot head, for well a farre off, and quickly, and she like of other

force and power by which we fee is not dispersed in them, but doth go directly vato the thing which is seen. Quellion. And

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And this is produed by a fimilitude: bicaufe that when a man doth stand in a deepe dirch, or well, he doth fee in the day time, standing in those places, the stars of the frmament, as Avistorle doth reach in his treatife De formaferets, bicaufe that then the power of the fight and the beames are not feattered with a me and a figure

Ouestion. Wherefore do shofe men which have shely eies far out, and not deepe in their head, fee but meanely, and no far tiffance ? but ming interest the ment of the second of

Answer. Bicanie (faith Ariffoste) the beames of the fight which paffe from the cie, are fcarrered on every fide, & do not go directly voto the thing which is feene, and therefore the fight is weakened at the trans and the

Quellion. Why are many beafts borne blinde, as lions

whelpes, and dogs whelps the moon and sol whill the it als

Anfwer. Bicaufe fuch beafts are not as yet of perfect ripenes and maturitie, & the course of nutriment doth not worke in them. And this is produced by a fimilitude of the swallowes, whose eies if they be taken out when they are little ones in the neaft, will grow againe. And this is plaine in many other beafts, which are brought foorthbefore their time, as it were dead, as whelps, beares, & this reason doth belong rather vnto the per-Spective, then the natural Philosopher.

Question. Why do she eies of a woman which hash his flowers, fraine a new glaffe, as Ariftode faith, De fom & vigil. And this is the like probleme, why doth the Bafilifque kill a man

minner he frence but the countries of the same sales and date

Answer. To the first the answer is that when the flowers do runne from the woman, then a most venemous nice is diffolued in them, the which doth afcende voto the womans head, and the having griefe of her head, doth couer it with many vailes and kerebiefes : and bicaufe the eies are full of fmall unfentible holes which are called pores, there the aire focketh a pullage; Meskey.

and

and fo doth infect the cies, which are full of blood And their cies do also appeare dropping, and full of reares, by reason of the euil vapour which is in them, and those vapours are enapourated and multiplied, vntill they come vnto the glaffe before them; and by reason that fuch a glaffe is very found, cleane, and fmooth, it doth

eafily receive that which is vncleane of asold lawy

To the fecondit is answered, that the Bafilique isa very venemous and infectious beaft, & that there paile from his eies venemous vapours, the which are multiplied unto the thing which is seene by him, and even vato the cic of man, the which venemous vapours or humors entering into the bodies, do infect them, and foin the end the man dieth. And this is also the reason why the Bafilifque looking vpon a shield perfectly wel made with fast clammy pitch, or any hard smooth thing, doth kil himselfe, bicause the humors are beaten backe from this smooth hard thing voto the Basilisque, by which bearing backe he is killed. And the like is faid of a woman when she hath hir monethly disease. Whereof it followeth, that some olde women do hurt themselves when the looke woon glaffes, or other firme and folide Question. Why is not the sparkeling of cats eies and wolfer

cits seene in the light, but in the darke?

Answer. Bicause that the greater light doth darken the letter, and therfore in a greater light that sparkling cannot be seene; but the greater the darkenes is, the bicause it is not then hindered by a greater externall

light, which might datken it.

Question. Why doth a man behelding himselfe in a glosse.

presently forget his avan disposition?

Answer. The answer is made in lib de forma speculi, that the image feene by the glaffe, doth represent it felfe weakely

### OF ARISTOTLE

weakely and undirectly vnto the power of the fight : and bicaufe it is represented weakely, it is weakely also ap. prehended, and by a consequence is not long retained.

Question. Why is the fight recreated and refreshed by a

reene colour, as this verfe doth thew?

Fons, speculum, gramen, oculis suns alleuiamen.

Answer. Bicause the greenecolour doth meanly moue the instrument of the light, and therefore doth comfort the fight: but this doth not blacke or white colour, bicause these colours do vehemently starre and alter the organe & instrument of the fight, & therefore make the greater violence: but by how much the more violent the thing is which is felt or feene, the more it doth deftroy and weaken the fence : as Ariflorle doth teach, a.de bicouler has the sire wants proceeded intonir wal saids does tairourbed by bis interached audicolition places

#### associated as a distribution of the note o side to subject the manufacture of the

Question. Why dosh the nofe fland out firsher then the

Answer. There are two answers. The first, bicause the note is as it were the fincke of the braine; by the which the fleume of the braine is purged. And therfore it doth ftand fo forth, leaft the other pare thould be defiled.

The fecond, according vnto Conft. is, bicause the nose is the beautie of the face, and therefore it doth thewit felfe and thine. It doth fmell also and adorne the face, ac Bering faith, De difcipt fichol, and marine ber you boat

Question. Why hash man she worst smell of all other li-

Anfwer. Bicaufe that man, as the Commentator faith, in respect of his quantitie hath the most moistest braine of all creatures. And therfore by that exceeding moystnes and coldnes, the braine wanteth a good dispositi-on, & by a consequence the smelling, seeing the instru-

ment

ment is not good, as Arifforle and Themifi doteach. Yea, fome men there be which do not fmell at all.

Question. Why dosh the Valeur or Cormorans finell very well, as the Commensator dosh fay ?

Anfwer. Bicaufe they have a verie drie braine, and therefore the aire entrying the imall, is not hindred by his inftrument. And therefore he faith, that the Vultures, Tygers, and other beafts, came goo. miles to the dead bodies after a battle in Grees eaul jas attli alues

Question. Why did nature make the nostrile?

Answer. For shree commodities. Furst, bicause that the mouth being thur, we draw breath in by the noffrils to refresh the bears with. The second commoditie is, bicause that the aire which proceedeth from the mouth, doth fauour badly, bicaufe it doth faudr of the vapours which rife from the fromack, but that which we breathe from the nose is not so noysome. The third, bicause the fleume which doth proceede from the braine is purged Ouestion Why do men fneese ? with the state of

Anfwer. Bicause that the expulsive vertue or power, and the fight should thereby be purged, and the braine alfo, from superfluities: bicavie that as the Jungs are purged by coughing, to the light & the braine by freefing. And those which incescofe, are faide to have a frong braine; and thereupon the Phylitions do give Incefing medicaments to purge the braine. And fuch fickepersons as cannot sneese, die quickely, bicause it is a figne that their braine is wholly stuffed with cuill

homors which connot be purged.

Question. Why camos such ar are apoplestickes, sheefe, that us such as are subject easily to bleed?

Answer. Bicause the passage and ventricules of the braine are stopped in them, and if they could sneese,

## OR ARISTOTLE

their apoplexie would bee loofed.

Queftion. Why dosh she bease of the funne pronohe free-

fing and not the heate of the fire ? diffolue, and not confume, and therefore the vapour diffolued is expelled by incefing; but the heate of the fire doth diffolue and confume, and therefore doth rather confume incesing then prouoke votoit. and choice of gaing threats being mile convertion undercording

## Of the Eares.

Qualtion: Y & THy do all beaft smoone their eares, and nos whole easer, be long at the finant semant of resembling in

pares from the personal control of the free from the adding a

Answer. Bicause there is in man a certaine muscule neere vnto the lawe, which doth hinder motion in the cares, and therefore that muscule beeing extended and Bretched, men do moove their eares, as it hathbeene feene in divers men : but other beafts want that mufcule or fleshy sinewe, and therefore doth moone their cares the defended to the ment of the perfect and application

Question. Wby is raine prognofficated by the pricking cholenia by the cancer and

up of the Affes eares.

Answer. Bicause the Affe is a very melancholy beaft, and it proceedeth from melancholie that he doth forefee raine to come. In the time of raineall beafts doe pricke up their eares, and therefore the Affe perceiping that it will raine, doth pricke up his cares before it rcome H Charle

Ille Question, Why have forall birds no eares ?

Answer. Aristotle doth answere, and lay that nature doth gine ento every thing that which is he for it. But'if thee thould have given birds eares, their flying would haue bin hindered by them, Likewise fish do want eares, bicause they would hinder their swimming, and have

onely certaine little holes, through which they do heare,

Question. Why have Bass eares, feeing they do feeme

that they doe flie, by reason whereof they have wings: and partly they are of the nature of source sooted beasts, and in that respect they are hairy, bicause they are mile, and therefore nature as being wise, gaue them cares.

Question. Why hash onely manround eares?

Answer. Bicause the shape of the whole and of the parts should be proportionable, & especially in things of one nature: for as a drop of water is round, so the whole water, as Iohn de sacro Bosco doth prooue. And so bicause mans head is round, the eares incline towards the same figure: but the heads of other beasts are somewhat long, and so their eares are drawn into length also.

Question. Why did nature give living creatures eares?

Answer. For two causes First, bicause that with them they should heare. Secondly, bicause that by the eares cholerike superfluitie is purged: for as the head is purged from sleugmatike superfluitie by the nose, so from cholerike by the eares.

## and the section of the Mouth. The section of the Mouth.

Question. Why bash she moush lippes so compasse

Answer. According vnto Const. bicause the lips doe couer and desend the teeth: for it were vnseemely that the teeth should alwaies bescene. Another answer is, that the teeth are of a cold nature, and would therefore be easily hurt, if they were not covered with the lips. Another morall reason is, bicause a man should not be too hastic in speech.

Question.

#### OF ARISTOTIE.

Question. Why hath man swo eares, and swoeies, and

Answer. Bicause a man should speake but little, and see and heare much. And withall, Aristotle doth say, that the hearing is the sense with which learning is gotten. And he saith, that the sight doth shew vs the difference of many things. And Seneca doth agree vnto this, affirming, that nature hath enuironed the toong with a double cloister, the teeth and lips, and hath made the eares open and wide, and hath given vs but one mouth, to speake little, though we heare much.

Question. Why bash a man a mouth?

Answer. For many commodities. First, bicause the mouth is the gate and doore of the stomack. Secondly, bicause the meate is chewed in the mouth, and prepared and made readie for the first digestion. Although Anicen doth hold that the first digestion is made in the mouth. Thirdly, bicause that the aire drawen into the hollow of the mouth for the refreshing of the hart, is made more pure and subtile. And for many other causes, which shall hereaster appears.

Question. Why are she lips moneable?

which cannot be perfectly done without them. For as without a,b,c. there is no writing, so without the lips, no voice can well be formed.

Question, Why do men gape ?

Answer. The glosse vpon the last part of Hippocrates
Aphorismes saith, that it proceedeth of wear somnes, as
when a man sitteth among such as he doth not knowe,
whole companie he could willingly be rid of.

Secondly, gaping is caused of the thicke fumes and vapours which fill the lawes, by the expulsion of the which is caused the stretching out and extension of the lawes, & opening of the mouth, which is called gaping.

Ouestion.

Queltion. Why doth a men gape when he feesh winth ornersbroad. Buriacon mar witte much

Anfwer. This proceedeth of the imagination. And this is proved by a fimilitudes for an Affe is minut sald (mibile, by reason of his melancholic, bicause he doth retaine his superfluitie a long time, and would never eate nor piffe, valeffe he should heare another piffe. And fo a man dorh gape through imagination, when mother man doth gape, don't land observed a samuel old clearund winessand beatments by but one mouth, to

## Of the Teeth.

Question. 7 7 7 Hy do she seesh onely, among all other V bones feele wish she fenfe of feeling ?

Anfwer. Bicaule, as Auicen and Galen do fay, they might discerne of heare and cold which hurt them, Question. Why have wen more seeth than women?

Answer. By reason of the abundance of heate and blood, which is more in men than in women no in the

Question. Why do she seesh growe will she end of our

life, and not the other bones ?

Anfwer. Bicaufe they should otherwise be confumed

with chewing and grinding.

Question, Why doe seesbonely come agains when some fall, or bee saken out, and other bones saken away grows no a classification

Infer, Bicaufe that according meo driftoile, all o. ther bones are ingendred of the bumiditie which is cal-led radicall, and to they breed in the wombe of the mo-ther: but the teeth are ingendred of nutritius humidi-tie, which is renewed and increased from day to day. Question. Why do the foreseth fell in youth, and grove

Jufuer. This proceedeth of the defect of matter and

#### OPMARISTOTLE.T

of the figure, bicaule the foreteeth are sharpe, and the others broad. But according vnto Arisforle, there is an other answer: that is, that it is the office of the foreteeth to cut the meate, and therefore they are sharpe: and the office of the others is to chew the meate, and therefore they are broad in fashion, which is fittest for that purpose.

Question. Why do she foreseeth growe formest ?

Answer. Bicause we want them sooner in cutting,

Question. Why do she reesh growe blacke in the olde age

of living treatures ? a none and constitute of latera disease

Answer. This proceedesh of the corruption of the meate, and the corruption of fleume, with a naughtic cholerike humor.

Question. Why are cols seesh yellow and of the colour of faffron when they be young and waxe white when they be old?

Answer Aristote faith that a horse hath abundance of watrie homors in him, the which in his youth are digested and converted into grosnes, but in old age heate is diminished, and the watrie humors remaine, whose proper colour is white.

Question. Why did nature give lining creatures teesh ?

Answer. Aristotle saith a de general animals to some to fight with and for the desence of their life, as vnto woolues and boares: vnto some to eate with, as vnto horses: vnto some for the forming of their voice, as vnto men, as it appeareth by the Commentator in the bookes De unimal animals and a property of their voice.

Question. Why do horned beafts want their apper cheeke

Answer: According unto Ariffetle in his booke de animal hornes & teeth are caused of the selfe same matter, that is, of nutrimental humidity, & therfore the matter which passeth into hornes, turneth not into teeth,

and therefore the upper teeth want. And fuch beaffer secording vnto Arificile, cannot chew well: whereupon for want of teeth they have two flomackes by a confequence, and fo do chew their meate twife: and they doe first convey their meate into their first stomacke or belly, and then returne it from whence it came & chewit.

Question. Why are some beasts brought foorshwish seeth, as kids & lamber, & some without, as men?

Anfwer. Nature doth not want in things necessarie, nor abound in things superfluous; and therfore bicanfe shele beafts nor long after they are fallen do neede teeth, are fallen with teeth : but men are nourished with the mothers dugge for a time, and therefore for a time Wanteeth. Why base not birds teeth? To musta hand also

Anfoer. Bicaufe the matter of reeth paffeth into cheir beake, and therefore there is their digestion; or els it is answered, that although they do not chewe with eeth, yet their heate in digestion doth supplie the want of teeth, a state of the supplies the want of teeth, a state of the supplies the want of teeth, a state of the supplies the supplies the supplies the supplies the want of teeth, a state of the supplies the supplies the supplies the want of teeth, and the supplies the supplies the want of teeth, and the supplies the supplies

## Of the toong.

Question. Why is she some full of pores?

Answer. According vnto Aristosle
de min, bicause the toong is the meane whereby wee safte, & through the mouth into the pores of the toong, the tafte doth come vato the fence of tafting.

Otherwise it is answered, that a frothly spettle is sent water the mouth by the tong from the lungs, moistening the meate, and making it readie for the first digestion: and therfore the toong is full of pores, bicause this spettle may have passage through him.

Question. Why doth she wong of such as are sieke of agues, indge all things to be bisser?

Anfwer.

### OF ARISTOTLE

Anfrey Biesule the ftomacke of fuch perfons is filled with cholericke humors, and choler is very bitter, as cappecreth by the gall, and therefore this bitter fume doth infect the toong, and fo the toong being full of thefe taftes, dothiudge them bitter, although the bitternes be not in the meats, but in the toong.

Question. Why dosh the soong water when we heare fours

and [barpe shings named &

Anfwer. Bicaufe the imaginative vertue or power, is of greater force then the power and facultie of taffing: and when we do imagine of any tafte, we conceive it by the power of talting, as by a meane, and bicaufe there is nothing felt by tafte, but by the meane of that fpettle therefore then the toong doth water,

Question. Why do some flammer and some life?

Anfuer. This happeneth for many causes. Sometimes through the mouttnes of the toong and braine, as in children, which cannot speak plainly, nor pronounce many letters. Sometime it happeneth by reason of the thrinking of certaine linewes which are corrupted with fleume : for fuch finewes there be which goe to the toong.

Quellion. Why are she soongs of Serpents and wad dogs

venemous ? .

Anfire. Bicause of the malignitie & fumolitie of the venemous humor which doth predominat in them.

Question. Why is a dogs toong ape and fis for medicine, es

contrarinife a herfo soong pestiferous?

Answer. This is by reason of some secret propertie, or els it may be faid, that the toong of a dog is full of many pores, and to doth draw and take away the viscolitie of the wound. Some say that a dog hath by nature some humors in his toong, with the which by licking he doth heale, and the contrarie is in a horse.

Question. Why is spesse white?

Anfwer. By reafon of the continual mouing of the toong, whereof heate is ingendred, which dorn make white this superfluitie which is spettle, as it is seene in the froth of water.

Question. Why is frestle on favory, and wishous saffe ?

Anfwer, If it had a certaine determined tafte, then the toong should not take at all, but should onely have the tafte of fpettle, and fo could not receive other tafts.

Queltion: Why doth the spettle of one who is faiting, beate an impossume?

Answer. Bicaule, according vnto Auteen, it is well digetted and made fubrile. The sale and he reletion to

Question. Why do fome abound more in spente shan other some?

other fome ?

Answer. This doth proceede of a fleugmatike comexion, which doth predominate in them; and therefore the Philians do fay, that fuch should take heede of a quotidian ague, which arifeth of the predomination of fleugme. The contrarie is in those which spet ittle, bresufe heare doth abound in them, which doth confume the humiditie of spertle, and so the defect of spettle is a figne of a feuer.

Question. Why is the specife of a man which is fasting, more subside and white, than of one who is full?

Answer. Bicause that that spettle is without the visone who is full, groffe and thicke.

Question. From whence proceedesh she fpest in man? Answer, From the froth of the lungs, which accor-

ding voto the Philitions, are the leate of fleugme.

Question. Why are fuch bearfs which of im go nighter for generation, very full of fome and finals?

Inform Bleaule that then the lights and the hare are in a great motion of lust, and therefore there is incodred in them much frothic matter. Caller.

Question.

## OF ARISTOTLE.

Question. Why have not birds foetile ?

Answer. Bicause they have very drie lungs, according

Question. Why do such as are called Epilepsi, shat is, such as are overwhelmed, and as it were drowned in their owne blood,

and are difeafed, favour badly and corruptly?

Inform. The answer according vnto the Philitions is, bicause the peccant matter lieth in the head; but if he do vomite, then the matter is in the stomacke; but if they wrine much, then the matter is in the passage of the vrine; but if they begin to have seede, then it is in the vessels of the seede, and according vnto this the Philitions do purge them.

Question, Why doth the toong loofe fometime the vie of

fpeaking?

8

Anjow. The answer is out of Hippocrat, that this doth happen through a pallie, or apoplexie, that is, a sudden effusion of blood, and of a grosse humor. And sometimes also by the infection spiritus animalis, in the middle cell of the braine, which doth hinder that the spirit is not carried vnto the toong: and this is Galent meaning, for by the expressing of the toong, many actions of divers passions are made manifest.

#### Of the roofe of the Mouth.

Quest. V Hy are fruits, before they be ripe, of a naughtie

V V relists, and afterward sweete?

Answ. A naughty relish in taste proceedeth of coldness and want of heat in grosse & thick humidity; but a sweet taste proceedeth of sufficient heate. And therefore in ripe fruite the humiditie is subtile through the heate of the summe, and therefore such fruites are commonly sweete; but before they be ripe the humiditie is grosse, and not subtile, for want of heate, and therefore then the fruits

fruits are bitter and fower.

Question. : Why be werasher delighted wish sweets taffs,

han with bister, or any other?

Anfwer. Bicause nature is delighted with sweetnes. The reason is, bicause a sweete thing is hor and moist and through his heate, it doth diffolue and confume fuperfluous humidities, and by his humiditie immundicitie is washed away : but a sharpe cager taste, by reason of the cold which doth predominate in it, doth binde overmuch, and pricke, and offendeth the parts of the bodie in purging. And therefore we doe not delight in shat tafte, bicaule she Philitions counfell vs to cate nothing which is bitter in the fommer, nor in a great heat: and the reason is, bicause hitternes doth breede heate: but we should eate bitter things in winter onely. And therfore Ariffeele doth fay, that fweet things are gratefull vato nature and do greatly nourith.

Question. Why doch a sharpe taste, as of vineger, pro-

e appesise rather than any other ?

Anjuer. Bicause it is cold and doth coole. Now it is the nature of cold to defire, and draw, and therefore is cause of appetite. Marke that there are nine kindes of taftes, three which proceed from heat, three from cold, and three from a temperate meane.

Question. Why do we draw in more aire, than we breathe

Anfwer. Aristotle, and Albertuin his booke de morn ordis, do answer, that much aire is drawen in, and is tur-ned into a nutriment, and with the vitall spirits is consained in the langs. And therefore a beaff is not fuffo. cated to long as he receives haire with the lungs, in which some part of the aire remaineshalfor, which some part of the aire remaineshalfor, who which she aire from so be expelled and put for the sing that indeeds the aire is institled by reason of his ravisie and thinks it.

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#### OF ARISTOTIE.

Infer. Bicause that the aire which is received into vs, is mingled with vapours and sum ofities of the hart, by reason whereof it is made thicke and so is seene. And this is prooued by experience, bicause that in winter we see our breath, bicause the coldnes of the aire dooth binde the breath mixed with sumosities, and so it is thickned and made grosse, and by a consequence it is seene.

Question. Why have some men a flinking breash ?

Answer. The answer is, according to the Philitions, bicause there doth arise cuill sumes from the stomacke: & somtime it proceedeth of the corruption of the airie parts of the bodie, as of the lungs. And the breath of leapers is so insected, that it doth poison the birds which are necre vnto them, bicause their inward parts are verie corrupt, as it appeareth by const. defin, bicause that leprose is a nourishment of all the parts of the bodie, togither with the corrupting of them: and it doth begin in the blood, and end in the exterior members of the body.

Question. Why be leapers boarfe?

Answer. Bicause that in them the instruments vocal

Queltion, Why domen become hourfe?

Answer. Bicause of a rheume descending from the braine, filling the conduits of the lights: or sometimes through som impostumes in the throte or rheume gathered in the necke.

Question. Why have all the femall of all lining creatures the shrillest voices, a come onely excepted, and a woman shriller

shan a man and fmaller?

Answer. According vnto Aristotle, by reason of the composition of the vaines, and vocall arteries, that is, where the aire doth enter in, by which vaines and arteries the voice is formed: as it appeareth by a simili-

great. And so also in women, bicause the passage where the voice is formed, is made narrowe and strait, by reason of cold, bicause it is the nature of cold to binde: but in men that passage is open and wider through heate, bicause it is the propertie of heate to open and dissolue. Also it proceedeth in women through the moystnes of the lungs and weakenes of heate. Young men and diseased men have sharpe and shrill voices for the same cause. And that is the natural cause why a man-child at his birth time doth crie a, i, which is a bigger sound, and the femalle, which is a stenderer sound, as it pleaseth Laberinsus, when he saith, Mascalus a profess.

Question. Why doth the voice chaunge in men and women, in men at 14, in women at 12, in men, when they begin to yeelde feede, in women, when their breafts begin to grow, as Ari-

foole doch fay, lib.de animal.

Answer. Bicause that then, saith Aristosle, the beginning of the voice is slackened and loosed: and he prooueth this by a similitude of a string of an instrument let downe or loosed, which giueth a greater sound. And he prooueth it another way, bicause that beasts which are gelded, as Capons, Eunuches, and gelded men, have softer and slenderer voices then others, by reason they want stones.

Question. Why do wen become hearfe, by she looking of

a moolfe.

Answer. The answer, according vnto Aristotles is, bicause a woolse is a very colde beast in the braine, and
thereupon hatha very heavie head. If then the spirite
of the sight or beames be directed and go towardes the
wolse, it doth draw som coldnes from him to the breast,
and then of that coldnes the breaste is straightened,
where the instruments are, by which the voice is formed: bicause a wolse cannot send soorth any other sumostities.

#### OF ARISTOTLE.

molities, and they are breathed out into the aire, that aire next voto him is infected, and the next aire by that aire, and fo another aire ; vntill it come vnto the man ; then that aire being infected, is drawne in by man, and fo doth make him hoarfe, by cloting the vocall arterie or windpipe. And it hath been alreadie faid that a wolfe is a very rauenous and devouring beaft, and doth eate as much at once as will ferue him for three daies, and therefore by opening his mouth doth cast foorth rawe and groffe humours vndigefted, by the which the next aire vnto him is infected, and so the next vnto it, vntill it come vnto the looker on, and so doth infecte like the Basilisque, which doth cast foorth venemous aires, which infect men by the eies,

Why is not a wolfe hoarfe when a man dosh Question.

looke on him?

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Answer. Bicause a man is not so cold as a woolfe. nor of fo malignant a qualitie. And for the like reason this probleme is mooned.

Question. Why dosh a man which is staine, bleede when

be is seene of him which killed him?

Answer. This proceedeth of a divine canse, & not of a naturall, bicause his blood doth cal for revenge against the murtherer. But if there be any naturall cause of it, this is it. The committer of this wicked fact calling it to minde, is very forie for it, and repenteth him of it, & is in anguish of minde, & in a great heat, through the strong imagination which he hath conceived', and by that meanes all his spirits do stir and boile and repaire vnto the instruments of the fight, & fo go our by the beames of the fight of the eies vnto the woundes which are made, the which if they be fresh, do presently fall a bleeding. Secondly, this is done by the helpe of the aire which is breathed in, the which being drawne from the wound, causeth it to bleed. C 2

Question.

Question. Why do small birds fing more and lowder then great ones, as it appearesh in the Larke and Nightingale?

Answer. Bicause the spirits of small birds are subtill and soft, and the organs and conduits straics, as it appecreth in a pipe: and therefore follow easily any defire, and so do sing very oft.

Question. Why do the male fing more then the female, as

is appeareth in all lining things?

Answer. It proceedeth from the defire of carnall copulation, bicause that then the spirits are mooued throughout all the bodie with the foresaid appetite and defire. And speaking generally, the semales are colder then the males.

Question. Why do Bees, Waspes, Flies, and Locusts, and many other such like beasts, make anoyse, seeing they have no

lungs nor instruments of the voice?

Answer. According vnto Aristotle, there is in them a certaine small skinne, the which when the aire doth strike, it causeth that sound, and therefore there is a strange sound.

Question. Why do not fish make a found?

Answer. Bicause that according vnto Aristosle, they have no lights, but onely gils, nor yet hart, and therefore they neede not the drawing in of aire, and by a consequence they make no noise: bicause that as Aristosle dooth say, a voice is a percussion of the aire which is drawen.

## Of the Necke.

Question. Why hath a living creature anecke?

Answer. Bicause the necke is the supporter of the head, as Aristosle doth teach: and therfore the necke is the middle betwize the head and the bodie, to the intent that by it and by his sinewes, as by certaine

certaine meanes and waies, motion and sence of the body might be conveyed throughout all the bodie, and that by means of the necke, as it were by a distance, the hart which is very hot might be separated from the braine.

Question. Why do some beafts wans anecke, as Serpenss,

filbes ?

fore they do not want that distance which we have spoken of: or els we answer, that they have a necke in some inward part of them, but it is not distinguished outwardlie from the hart and the head.

Question. Why is the necke full of bones and ioints?

Answer. Bicause it may beare & sustaine the head the stronger. And also bicause the backe bone is joyned to the braine in the necke, and from thence it receiveth marrowe, which is of the same substance with the brain.

Question. Why have some beafts long neckes, as Craines,

Storkes, and fuch like?

Answer. Bicause such beasts do seeke their living in the bottome of the water, and therefore do want such neckes. And some beasts have short neckes, as Sparrow-hawkes, bicause such are ravenous beasts, and therefore for strength want such short neckes: as it doth appeere in an oxe, which hath a short necke, and is therefore strong.

Question. Why is the necke bollowe, and especially before

about the soone?

Answer. Bicause there be two passages, whereof the one doth carrie the meate vnto the nutritive instruments, as to the stomacke and liver, and is called of the Greekes Isophague: the other is the windpipe.

Question. Why is the arserie made like rings & circles?

Answer. The better to bow, and to give a good soun-

ding againe.

Question.

Question. Why doth a chicken moue a great space after

his head is off, and a man beheaded never flirresh?

Answer. Bicause a chicken and such like, have straite sinewes and arteries, and therefore the spirit of moouing continueth long after the head is off: but men & other beasts have long and large sinewes and arteries, and therefore the motive spirits doe quickely depart from them, and by a consequent cannot moove their bodies.

### Of the shoulders and armes.

Quest. Why hash a man shoulders and armes?

Answer. To give and carry burdens, according vnto Aristoile.

Question. Why are his armer round?

Answer. For the swifter and speedier worke, bicause that that figure is fit to mooue.

Question. Why are the armes thicke?

Answer. Bicause they should be strong to lifte and beare burdens, to thrust, and give a strong blowe: so their bones are thicke, bicause they containe much marrow, for seare least they should be easily corrupted and marred: but marrow cannot so well be contained in small bones as in great.

Question. Why do such as are diseased and in griefe, vn-

Answer. Bicause such are neere vnto death, and it is a figne of death, by reason of great griefe which causeth that vncouering, as Hippoc. doth teach, lib. prognost.

Question. Why do the armes become small and stender in some sickness, as in mad men, and such as are sicke of the

dropfie ?

Queiling.

Answer. Bicause all the parts of the body doe suffer the one with the other, and therefore one member be-

ing in griefe, all the humours do concurre and runne thither to get fuccour and helpe to the foresaid griefes. For when the head doth ake, all humours of the armes do runne to the head, and therefore the armes become small and slender, bicause they want their proper nouriture.

Question. Why have brute beafts no armes ?

In their place. Or els we may answer more fitly, bicause all beasts haue some parts for their defence, and to fight with, as the Woolfe the teeth, the Cow hornes, a Horse the hinder feete, birdes the beake and wings: but onely man hath his armes.

### Of the Hands.

Question. VV Hy hash a man hands, and an ape alfo which is like worso a man?

Answer. The hand is an instrument which a man doth especially want, bicause many things are done by the hands, and not by any other part, as Aristotle doth teach.

Question. Why are some men ambidexters, that is, ofe the

left hand as well as the right?

Answer. By reason of the great heate of the hart, and for the hot blowing of the same, for that it is which maketha man as nimble of the left hand as in the right: and without doubt such are of a good complexion.

Question. Why are not women ambidexters as well as

men, as Hippocrates faith, ult. part. Aphorif.

Answer. Bicause as Galen saith, a woman in health which is most hot, is colder then the coldest man in health: I say in health, for if she have an ague, she is accidently hotter then a man.

Question

Question. Why are the fingers full of ioints ?

Answer. To be the more fit & apt to receive, and to keepe the thing received.

Question. Why hash every finger shree joints, and she

shumbe but two?

Answer. The thumbe hath three, but the third is ioimed vnto the arme, and therefore is stronger than the
other singers, and is bigger in strength, seeing he is also
in quantitie, and is called pollex à polleo, that is, to excell
in strength.

Question. Why are the fingers of the right hand more

nimble, shan the fingers of the left, as Aegidius faith?

Answer. It proceedeth of the heate which doth predominate in those parts, which causeth greater agilitie.

Question. Why are the fingers thicker before meate, than

after, as Albertus faith ?

noille iii)

Answer. According vnto the Phisitions, bicause a man which is fasting is full of bad humors, and divers sumosities, which pusse vp the parts of the body, and the singers also: but when those humors are expulsed through meate, the singers become more slender. And for the same reason, a man which is fasting is heavier than when he hath meate in his belly, as it is most plain in fasters. Another reason may be given, that is, bicause that after meate, the heat departeth from the outward parts of the body vnto the inward, to helpe digestion, and therefore the outward and externall parts become slender: but after the digestion is made, the blood returneth agains to the exterior parts, and then they become great agains.

Question. Why are some men lefe handed?

right lide, but more vato the left, and dothallo worke a flendernes and subtiltie in the left fide.

Let in a gottle letter of

# Of the nailes.

Question. From whence do she nailes proceede?

Answer. Of sumoficies and humors which are resolved, and do go into the extremities of the singers, & there are dried through the power of the extremal aire, and brought to the hardnes of a horse.

Quellion. Why do she nailes of old men growe blacks and

pale ?

which decaying, their beautie doth decay also.

Question. Why are men indged so be of a good or enill

complexion, by the disposition of their nailes?

Answer. Bicause they give witnes of the goodnes or badnes of the hart, and therefore of the complexion: for if they bee somewhat red, they betoken choler well tempered: but if they be inclining with red somewhat to blacknes, they betoken a sanguine complexion: but if they be yellowish or blacke, they signific melancholy.

Answer. Through the mixture of fleume with the nu-

题自由《古史·正马德·西西·罗纳·马特·马特·马特·

triment.

# Of the breaft.

Question. Why is the breast hollow?

Answer. Bicause there is the seate of the spiritual and a creous members, which are most noble, as the hart and lights, and therefore bicause these might be kept from hurr, it was necessarie that the

Question. Why hash a man she broadest breast of all its

Answer.

Answer. Bicause the spirits of man are weake and subtile, and therfore do require a spatious place, wherein they may be contained, as the breast is.

Question. Why are the breafts of birds round?

Answer. Bicause they be in continual motion, and that figure is fittest for motion, as Aristotle doth say, 4. Phisick.

Question. Why do we drawe shofe shings which we loue

ynto our breast?

Answer. Bicause the first and chiefest part of the hart is under the breast, and therefore that which the hart doth loue we do drawe to the breast, by reason of the neighbourhood it hath with the hart, so applying the thing loued unto the louer.

Question. Why have women narrower breasts shanmen?

Answer. Bicause there is heate in men, which doth
maturally moue to the vppermost part of them, making those parts great and large. And therefore a great
breast is a token of courage, as Anistosie doth say, declaring this to be true by the Lion and the Bull: but
in women colde doth predominate, which naturally
doth tend downeward. And therefore Anissocie doth
say, that women do oft fall upon their taile, bicause
those parts behinde are grosse and heavie, by reason of
the cold descending thither: but a man doth commonly fall on his breast, by reason of his greatnes and thicknesse.

# Of the paps and dugs.

Question. Why are the pape placed upon the breast a state of the hart which is most hor, and therefore there the paps do growe, to the end that the flowers being convaied this her, as being necessity on the helphashe.

hart, should the sooner be digested and perfected, and converted into the matter and substance of milke.

Question. Why are the pups belowe the breasts in other

beafts, and about the breaft in women?

Answer. Bicause a woman goeth vpright, and hath two legs onely, and therefore if hir dugs should be belowe hir breaft, they would hinder hir going: but other beafts have fower feete, and therfore they are not hindered in their going.

Question. Why have not men as great breasts or paps as

women ?

Answer. Bicause a man hath no monthly tearmes, and therefore no veffell deputed for them. And yet Ariflotle doth fay, that men haue small paps and women little fmall stones.

Question. Which paps are best for children to fuck great

ones, or small ones, or the meane betweene both?

Answer. In the great ones the heate is dispersed, and there is no good digestion of the milke; but in small ones the power and force is ftrong, bicause a vertue vnited is strongest, and by a consequent there is a good working and digesting of the milke : and therefore the small ones are better than the great ones : but yet the meane ones are the best of all, bicause that every mean is beft.

Question. Why do she paps of young women begin to growe. great about thirteene or four scene yeers of age, as Albertus doth

Cay ?

Answer. Bicause that then hir tearmes begin to have course and to increase: and as Ariffotle doth lay, mans feede and womens flowers do begin to increase at one age. The training of the same of the same of the

Question. Why do the papt of fuch women as cast their childe, waxe foft, as Hippocr faith, 2, part. Aphorif.

or. Bicaufe that there the flowers have no course

to the teates, by the which the yoong one is nourified, but follow their ordinarie course, and therefore they waxe soft.

Question. Why hash a woman shas is wish child wish a

boy, the right pap harder then the left?

Answer. Bicause the male-childe is conceived in the right side of the mother, as Hippor, faith, & therefore the flowers do run to the right pap and make it hard.

Question, Why dosh it signific weaknes in the childe, when the milke doth drop out of the pappes before the woman be

delinered ?

Answer. According vnto Aristosle, bicause the milke is the proper nouriture of the childe in the wombe of the mother, and therefore if the milke runne out it is a token that the childe is not nourished, and therefore is weake.

Question. Why does she hardnes of she paps besoken she

bealth of the childe in the wombe?

Answer. Bicause the flowers are converted into milk, and that milke doth sufficiently noursh the childe, and thereby his strength is signified.

Question. Why hath a woman but two paps, and some brute

beafts sen,o more ?

but one childe either boy or wench, and therefore one pap is sufficient or two: but beasts have many young ones, and therefore so many teates.

Question. Why be womens paps hard when they be with

child, and fofs at other times ? all is

Answer. They swell then and are pussed up, bicause that much moisture which proceedeth from their slowers doth run vnto the paps, which at other seasons do remaine in the matrix or wombe, and is expelled by the place deputed to that end.

Question. By what meanes doth the milke of the pappes

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come wate the matrix or wombe &

Answer. According vnto Hippocrates, bicause there is a certaine knitting and coupling of the pappes with the wombe, and there are certaine vaines which the Midwines do cut at the time of the birth of a childe, and by those vaines the milke doth flow vnto the nauill of the children, and so they receive nouriture by the nauill. Some say, that the childe in the wombe is nourished at the mouth but that is false, bicause that so he shoulde anoide excrements also: but that is false, bicause that that is not seen where.

Question. Why is it the signe of a male-childe in the wombe, when the milke which runneth out of the womans breasts

is shicke, and nor much, and of a female when it is shin?

boy hath greatheat in hir, which doth perfect the milk, and make it thicke: but such as goe with a wench have not so much heate, and therefore the milke is vindige-sted and unperfited, and watery and thin, and will swim about water if it be put into it.

Question. Why is the milke white, feeing she flowers are red,

which is is ingendred of.

Answer. Bicause that blood well purged and concocted, becommeth white, as it appeareth in flesh, whose proper colour is red, and being well boiled is white. Another answer is, bicause that every humor which is ingendred in such a part of the body, is made like vnto that part in colour where it is ingendred, as neere as it can: but bicause the flesh of the paps is white, therefore the humor of milke is white.

Question. Why doth a Come gine milke more abundantly

shen other beafts ?

Answer. Bicause a Cow is a great cating beast: and where there is much monthly superfluitie ingendred, there is much milke, bicause it is nothing els but that blood

bloud purged and tried: and bicause a cow hath much of this monthly bloud she hath much milke.

Question. Why is not milke wholesome, as Hippocrates

faith, 2. part. Aphorif.

Answer. According vnto the opinion of Galen, for divers reasons, First, bicause it doth curde in the stomacke, whereof an euill breath is bred. But to this Hippocrates giveth a remedie, saying: If the third part of it be mingled with running water, then it is not hurtfull. Another reason is, bicause that sometimes the milke doth waxe sower in the stomacke, and boile till it be dry, whereof euill humours are bred, which do insect the breath.

Question. Why is milke naughs for such as have the

Answer. Bicause milke is easily converted into great fumosities, & hath much terrestrials substance in it, the which sumosities ascending, doth cause the head to ake.

Question. Why is milke a fir nutriment for children and

infamıs?

Answer. Bicause it is their naturall and vsuall foode, and bicause they were nourished with the same in the wombe of the mother, it is fit for them.

Question. Why are white meases made of a new milch

Cow good?

Answer. Bicause the milke is at that time very spongie, and doth expell many fumosities, and doth as it were purge at that time.

Question. Why is she milke naught for the childe, if the

woman do r fe carnall copulation?

Answer. Bicause that in the time of carnall copulation, the subtilest and best part of the milke goeth to the vessels of the seede, and vnto the wombe, and the woorst remaineth in the paps, which doth hurt the childe.

Question.

Quelion. Why is the milke of browne women bester, than

Answer. Bicause that browne women are hotter than others, and bicause the heate doth purge the milke sufficiently, and so the milke is the better.

Question. Why do the Thisisions forbid us to ease milke

and fish at the same meale?

Answer. Bicause they do dispose vs to a leprosie, and bicause they are both fleugmatike.

Question. Why have not birds milke and paps?

Answer. Bicause paps would hinder their flying: and fish also have neither paps nor milke, as Aristotle doth say: but in fishes the female doth cast much spawne, vpon which the male doth touch with a small gut, which causeth their kinde to be infinite in succession.

### Of backs.

Answer. According vnto Aristosta, for three causes. First, bicause the backe should bee
the way and meane of the sinewes, which are extended
and spred throughout all the bodie from the backbone,
as it appeareth in such as are hanged, bicause that when
they are torne in peaces, or without sless, the sinewes
hang whole in the chine or backe bone. The second,
bicause it should bee a garde and defence for the soft
parts of the body, as of the stomacke, liver, lights, and
such like. The third, bicause it should be the soundation
of all the bones, bicause we see other bones, as the ribs,
fastened in the backe bone.

Question. Why hash a man above all creatures a broad

backe, which he can lie vpon, which no beaff can do?

Answer. Bicause a broad backe doth answer a broad brest. If therefore a man should have a sharpe back like

Vnto

voto other beafts, that would be of an volcemely shape. and therefore it is requifite that he have a broad backe.

Question. Why hash amon which liesh on his backe hor-

rible visions ?

Answer. Bicause then the passage or linew of the fantalie is open, which is in the forepart of the braine, and fo the fantalie is destroied, and then those visions follow. Another reason is, bicause that when a man doth lie on his backe, the humors are disturbed, and moved voward where the fancasie is, which is by that meanes disturbed.

Question. Why is is newabt to lie on the backe?

Anfwer Bicaufe, as the Philitions do fay, that doth dispose a man to a seprosie, madnes, and to an Incubus, Where you may note, that Mania or madnes is the hurt or diffurbance of the forepart of the braine, with a taking away or deprivation of the imagination; but Incubue, that is, the nightmare, is a passion of the hart, when a man doth thinke himfelfe to be strangled in his fleepe, and fomewhat lie heavievpon his stomacke, which hee would pur off.

Question. Why bash she backe bone many joints and

knuckles, called Spondylia by she Philitions ?

Anfirer. For the mouing of the backe, and bowing of him, without the which joints the t could not be done. And therfore they fay amiffe which fay that Elephants have no fuch joints: for without them hee could not

Question. Why do fife die prefently when their back bone in braft?

Answer. Bicause that in fifth the back bone is in fleed of the hart. Now the hart is the first thing which doth live, and the last thing which doth die, as it appeareth in the booke de longit. & benit, wite, and therefore when charbone is broken, fifth can live no longer. WILLIAM

OF

#### Of the Marrow.

Question. Why doth a man die quickly after the

Answer. Bicause the marrowe doth proceede from the braine, which is a principall part of man, as it appearethin two reasons. First, because the marrowe is white like vnto the braine. Then, bicause they have a small skin or rinde, which that which is called Nucha hath not, which doth somewhat differ from the marrow, bicause that Nucha hath two coverings like the braine, called Pia mater, & Dura mater.

# Of the Piles or fluxe of blood in the fundament.

Question. T & 7 Hy have some men the piles?

and melancholike, the which melancholie first passeth to the spleene, which is the proper seat of melancholie, and there cannot be retained through abundance of blood: and therefore from thence it is carried to the backebone, where there are certaine vaines which have their end in the backe the which do receive that blood. And when those vaines are very full of melancholy blood, then the waies and conduits of nature are opened, and that blood issues and conduits of nature are opened, and that blood issues on those men which have this course of blood, are kept from many infirmities, as the dropsie, plague, and such like.

Question. Why are the lewer fubicat vnto this difeafe

very much ?

Answer. The Divines do say, bicause they cried at the death of Christ, Les his blood fall voon vs and our children. And therefore it is said in the Psalm, Tercussives.

Densin posseriora dors. Another reason is, bicause the Iewes

Iewes do eate much fleugmatike and cold meats, which doth breed melancholy blood, which is purged by this fluxe of blood. Another reason is, bicause mooning doth eause heat, & heat digestion, as 4 Meteor, but the lewes do not moone nor labor, nor converse with men. Also they line in great fear, lest we should revenge the death our Sauiour, which doth also breed a coldnes in them, which doth hinder digestion, which doth breed much melancholy blood in them, which is by this meanes purged.

### Of the hart.

Question. W Hy are the bart and the lungs, called linely parts of the body, in Lasine Spiritalia membra?

Answer. From this worde spiritus, which signifieth breath, life, or some, and bicause the vitall spirits are ingendred in the hart: but that is no good answer, for so the liver & the braine might be so called, which is false: bicause the liver is a part which giver h nouriture, and the braine sence and life. And yet the consequence is cleere, bicause the vitall spirits are ingendred in the liver, and the sensible or animal spirits in the braine. And therefore the answere is, bicause that in the hart and in the lungs breath and aire is received, by which we live.

Question. Why are the lungs thinne and spungie, light

and full of final boles ?

Answer. Bicause the aire might bee the better receiued in them, for the cooling of the harr, and expelling of superfluous humours, bicause the lungs are the
fanne of the hart. And as a paire of bellowes is puffed
vp by taking in of the aire, and shrinketh by blowing out
the aire: so likewise the lights do drawe aire when they
coole the hart and cast it out, least through too much

heate of the aire drawen in the hart shoulde be suffoca-

Question. Why is the flesh of the lungs white ?

Answer. Bicause they be in continual motion.

Question. Why have shofe beafts onely lungs which have

Answer. Bicause the lungs be no part for themselues, but for another, that is, for the hart: and therefore it were superfluous for those beasts to have lungs which have no hart: but nature doth neuer want in things necessarie, nor abound in superfluities.

Question. Why do such beafts which bane no lungs wans

a bladder ?

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Answer. Bicause such drinke no water, to the ende to make their meat to boile, or to helpe digestion, but only for the tempering of their meate, and therefore they want a bladder and vrine, as it appeareth in such birds as do not drinke at all, as the Falcon, Sparrowe-hawke.

Question. Why is the hars in the middest of the body?

Answer. Bicause it should impart life vnto all the parts of the bodie: and therefore is compared vnto the Sun, which is placed in the middle of the planets, to powre light vnto them all. And therefore the Pythagorians calling the Heauen a great lining creature, say, that the Sunne is the hart of him.

Question. Why onely in man is the hart placed in the left

Answer. To the end that the heat of the hart should mitigate the coldnes of the spleene: for the spleene is the scate of melancholy, which is scated in the left side likewise.

Quellion. Why is the hart first ingendred? for according

Anfwer. Bicaule, as Aristotle faith, de inventute &

of all the parts of the body, and without him no part can line. Note, according vnto the Philosophers, that of the seede retained in the matrix or wombe, there is first ingendred a certaine little small skin, which doth compasse the seed, whereof first the hart is made of the purest blood, then of a blood wor so pure, the liner, and of a thicke and colde bloode the matrowe and the braine.

Queltion. Why are fuch beafts bold which have but a liste

hart, as the lyon ?

Answer. Bicause that in a little hart the heate is well vnited and vehement, and the blood touching him doth quickely heat him, and is speedily carried vnto the other parts of the body, which doth give courage and boldnes.

Question. Why are such beafts as have a great hart verie

fearfull, as the Hare?

Anfaer. Bicause the heat is dispersed in such a one, and is not able to heate the blood which commethe him, and so feare is bred.

Question. Why is the hart continually mooned?

Answer. According vnto Aristot, de moto cordie, and Galen, bicause that in him there is bred a certaine spirite which is more subtile then the aire, which by reason of his great thinnes and rarefaction, doth seeke a larger space, filling the hollow roome of the hart, whereof the dilating and opening of the hart doth followe. And bicause the hart is earthlie, that thrusting and moouing ceasing, his parts are at rest, and tend downwards. And Galen giveth an experiment of an acorn, the which if it be put into the fire, the heate doth dissolue his humiditie into smoake, which is thinner and greater then the humiditie, and therefore doth occupie a greater place, and so cannot abide in the rinde, but doth pusse

it vp, and cause it to fall into the fire. The like is of the hare; and therefore note that the hart of a living creature is triangular after a fort, and hath the least part towards the left fide, and the greatest towards the right, and doth alwaies open and thut in the least part, and by that meanes is in continual mooning. The first mooning is called of the Philitions Diastole, that is, the extending of the breaft or hart. The second, Siffele, that is, the shutting of the hart, and of these two moouings all the moouings of the bodie do proceede & the mouing of the pulle which the philitions do feele.

Question. Why are great beafts leane?

Answer. Bicause the natural heate proceeding from the hart, doth confume the watrish humiditie, which should be concerted into far. And for the most parte women are fatter then men, bicanfe they baue much humiditie in them, and have a moister hart then Quelling, Why do fine beat went a fair? men.

Question. Why is the flesh of the bart so compact and

shicke sogither? . I dany 213 ne diou dan's ref somo

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Answer. Bicause that in a thicke compacted substance, heate is strongly received and vnited, as it appeareth in other things. And bicause the hart with his liente hould moderate the coldnes of the braine, it is made of that falt flesh apt to keepe a ftrong hear.

Question. Why is the hart the hottest part in all lining

greatures ?

Answer. Bicause it is so compacted it receivethhear belt, and bicause it should mirigate the coldnes of the braine, as is faid.

Question. Why is the hart the beginning of life?

Answer. Bicause that in him the vitall spirit is bred, which is the feate of life. And therefore according vato the opinion of August, de different, spirit. & enime, the harthath two bellies or receptacles, that is, the right

and the left: the right hath more blood then spirit, the which spirit is ingendred to give life, and to vius cat all the body.

Question. Why is the hart round, and of the figure of a py-

ramide, long and flarpe?

Answer. The round figure hath no angles, and therefore the hart is round, for feare least any no forme and
hurtful matter should be kept and retained in him. And
also, as Aristotle doth affirme, bicause the round figure is
fittest for motion.

Question. Why is she blood principally in the hart about all

other parts ?

Answer. Bicause the blood is in the hart as in his proper place, or in his efficient place, which some doc attribute voto the liner. And thereupon the hart doth not receive blood of any other part; but other parts of him.

Question. Why do some beafts want a hars?

Answer. Although they have no hart, yet they have somewhat which doth answere vnto the hart, as it doth appears in fish, and celes, which have the backe bone in steed of the hare.

Question. Why doth the hars beate and line in some beasts when she head is office is appearesh in birds and in hens?

Answer. Bicause the vitall spirits do remaine longest in the hart, bicause the hart is that which is first aliue & last dead, as Aristoile doth say, and therefore the hart doth beat more then other parts.

Cuestion. Why do all beafts which want a hars, or somewhat proportionable unto it, want blood also, as it appeareth in

flies

Infor. The hart is the beginning of blood, and ther-

Question. Why is she pulse of the hars more certainly judged in the right side shen in the left to

Answer.

Answer. Bicause the heate of the harr is more lively there then in the other side, and therefore it is better felt there, then in the other side.

Question. Why doth she heate of the hars faile sometimes

on a fudden, as in those which baue the falling ficknes?

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Answer. This doth proceede according voto Conflant, through the defect of the hart it felfe, and of cerraine small skinnes with the which it is couered, the which being infected or corrupted, the hart faileth on a fudden: and sometime it doth happen by reason of the parts next adjoining. And therefore when any venemous humor doth go out of the mouth of the ftomack, that doth burt the hart, and the parts adjoining, the which doth also cause this fainting. Note according vnto Arifforle, that the disposition of the hart is knowne by the pulle of the hart, bicause a swift great bearing pulle, doth give witnes of the heat of the hart and of a good complexion. A flow and weake pulse dothbetoken the coldnes of the hart and an euill complexion. And therfore a woman which is in health hath a flower and weaker pulse then a man, as it shall appeere heereafter.

### Of the stomacke.

Question. VV Hy is the stomacke large and wide?

Answer. Bicause that in the stomacke the meate is first concocted and digested, as it were in a potte, to the ende that that which is pure should be separated from that which is impute, as Arishalle saith: and therefore according vnto the quantitie of meat the stomacke is inlarged.

Question. Why is the stomacke round?

Answer. Bicause that if it had angles and corners, as Const. saith, the meate would remaine in them and breede cuill humours, and a man shoulde neuer want

lifted vp and confumed, & are not hidden in any fuch corners, by reason of the roundness of the flomacke.

Question. Why is she stomache full of sinewes and fee-

ling ?

Anfær. As Ariftorle doth fay, bicanfe the finews can be extended and inlarged, and so the stomacke is when it is full, and when it is hungrie it is drawne togither, & therefore nature hath provided those sinewes.

Question. Why doth the flomacke digeft?

Answer. By reason of the heate which is in him, the which heat commeth from the parts adjoining, that is, the liner and the hart. For we see that in metals the heat of the fire doth take away the rust and drosse from the iron, and sluer from tinne, and gold from copper: and so by digestion the pure is separated from the impure. And that digestion is of source sorts, according vnto the Phistions.

Queltion. Why is the flomack isined onto the liner?

with his heat doth helpe digettion, and doth compaffe the fromacke.

Question. Why be we commonly colder after dinner then

before?

Answer. Bicause that then all the hear goeth to the stomatke to further digestion, and so the outward parts be cold, being deprived of heat.

Question. Why is it hurtfull to Studio prefently after din-

ner ?

Answer. Bicause that when the heat doth labour to helpe the imagination in studie, then it ceaseth from digesting the meate, and so the meate remaineth raw. And therefore according vnto the Phistions a man should walke somewhat after dinner.

Question. Why have women nish childe an unordinate

appetite of enting coales, after, and fuch like ?

flomacke, such nutriment they defire : and bicause women with childe have corrupted humors, they defire such things, bicause like doth couet his like.

Queltion. Why doth the flowacke flowly digeft very fas

meate ?

macke. Now the best digestion is in the bottome of the stomack, where far meate commeth not. And therefore such as cate far meate are verie sleepie after the eating of it, bicause their digestion is hindered.

Quettion. Why is all she bodie she woorfe when she fle-

mache is ill as eafe fre and frage worked a Ti cool say 2 of 140 A

Answer. Bicause the stomack is knit with the braine, hart and liver, which are the principall parts in man, and therfore when he is not well, the others are evilly disposed. Another answer is, that if the first digestion be hindered; the others are also hindered; for in the first digestion is the beginning of the infirmitie that is in the stomack.

Question. Why are young men fooner a hungred than old

Answer. Young men do digest for three causes. First for growing: then for restoring of life; and lastly, for conservation of their life, as Hippocrates and Galen doth say. Else we answer, that young men are hotter than olde men, bicause young men are hot and drie, and therefore the heate doth digest more, and by a consequent they desire more.

Question. Why & Phisisions prescribe that a man flould

ease when he hash an appetite?

Anfor. Bicause much hunger and emptines doth fill the stomacke with naughtie rotten humors, which he doth draw vnto himselfe in steede of meate: which

doth eafily appeare, bicause that if we fast over night, we have an appearite to meat, but in the morning none. That is therefore a token that the stomacke is filled with naughtie humors, and especially his mouth, which is no true filling, but a deceitfull. And therefore after we have eaten a little, out stomack commeth to vs againe. And then the proverbe is, that one morfell drawerh another: for the first morfell having made cleane the mouth of the stomacke, doth provoke appearite.

Question. Why do the Phisisions preferibe, that we fould

mot ease soo much as a sime, but by little and little ?

Aufwer. Bicause that when the stomacke is full, the meate doth swim in him, which is a dangerous thing. Another reason is, that as very greene wood doth put out the fire, so doth much meate choke the naturall heate and put it out. And therefore the best phisicke is to vie temperancie in eating and drinking.

Question. Why do we defire change of meates, according

fammer lighter meases, as veale, lambe ?

Answer. Bicause the complexion of the bodie is altered and changed, according vnto the time of the yeere. Another answere is, that this doth proceede from the qualitie of the season, bicause that the colde of the winter doth cause a better digestion, bicause the stomacke and belly is hotter in winter, by reason of the compassing cold, as Hippocrases and Aristosle doth teach.

Question . Why should not the meate we ease be too hot, as

Pepper, Ginger?

Answer. Bicause that hot mease doth burne the blood, and doth dispose vnto a seprose. So contrariwise, meate too cold doth mortifie and congeale the blood. Also our meate should not bee over sharpe, bicause it procureth oldeage: and over much sauce doth burne

the intrailes, and procureth often drinking, as rawe meate doth: and ouer sweete meates do consupate and clinge the vaines togither.

Question. Why is is a good cuffome to ease cheefe after

dinner, and peares after all meate ?

Inesse and thicknesse, tendeth downe toward the bottome of the stomacke, and so putteth downe the meate: and the like is of peares. Note that new cheese is better than olde, and olde drie salt cheese is very naught, and procureth the head-ach and stopping of the liner, and the older the woorser. Whereupon it is said, that cheese is naught, and digesteth all things but it selfe.

Question. Why be muss good after fift : as the verfe is:

After fift muts : after flefb cheefe.

Answer. Bicaule fish is of a hard digestion, and doth easily putrifie and corrupt, and nuts doe helpe digension, bicause they are somewhat hot. And fish is poylon at some times, and nuts are a remedie against poilon. And note that the fish should be of a cleere stonic water, and not of a cold standing muddie water, and should be sod in wine with parsly, and so it doth least hure.

Question. Why is it on wholefore to flay long for one diffe

after another, and ease of diners kindes of meases?

Anjwer. Because the first meate beginneth to digest when the last is eaten, & so the digestion is not equally made, and therefore the meate digested beginneth to corrupt. But yet this rule is to be noted touching the order of meates, that if there be many dishes, whereof some are light in digestion, as chickens, kid, veale, soft egs, and such like, these meates should be first eaten a but the grosse meates, as venison, bacon, heese, rosted porke, hard egs, and fried egs, should bee eaten last.

And

And the reason is, bicause that if they should be first ferued and eaten, if they were digested, they would hinder the digestion of the others; and the light meates not digested, should be corrupted in the stomacke, and be kept in the stomack violently. Whereof there would follow belching, loathing, head-ach, belly-ach, and great thirst. And by a consequentities very hurtfull too at the same meale, to eate milke, and drinke wine, bicause they dispose a man to a seprosse.

Question. Which is bester for the stomack meate or drink?

Answer. Drinke is sooner digested than meate, bicause meate is of greater substance and more materials
than drinke, and therefore meate is harder to digest.

Question. Why is is good to drinke as dinner?

Answer. Bicause the drinke should make the meate readier to digest. For if a pot be filled with flesh or fish without liquor, then both the meate and the por is marsed. And the stomack is like voto a pot which doth boile meate; and therefore the Phistitions do give counsell to drinke at meales.

Question. Why is it good to forbeare a late Supper?

Answer. Bicause there is no mooning nor stirring after supper, and so the meate is not sent downe to the borrome of the stomacke, but remaineth vadigested, and so breedeth hurt. And therefore a light and short supper is best, as the old verse doth shew.

Question. Why is it mought to drinke wine fasting ?

Answer. Bicause it doth greatly endanger the braine, and breedeth the falling sicknes, and the apoplexie.

Question. Why is inhursfull to drinke much cold water?

Answer. Because one contrarie dosh expell and hinder another: but the water is very cold, and therefore comming vnto the stomack doth hinder digestion, and the heate which doth digest.

Question. Why is is vnubole some so drinke new wine, and

why doth is hurs she flomacke very much ?

Answer. Bicause it cannot be digested: and therefore it doth cause the belly to swell, and so it doth in some fort cause a bloodie flise: it doth also hinder making of water: but to drinke good wine is wholesome.

Question. Why do the Phissions forbid vs to labour pre-

Sensty after dinner ?

doth hurt the vertue and power of digestion, and by that meanes the meate is expelled vndigested. The second is, bicause stirring immediately after dinner doth cause the parts of the bodie to drawe the meate raw vnto them, which doth breede sicknes. The third, bicause mouing doth cause the meate to descend before it be digested: but after supper it is good to stirre and moue, bicause we sleepe not long after. And therefore we should walke a little, bicause the meate may go to the bottome of the stomacke.

Question. Why is it good to walke in the morning before

dinner ?

Answer. Bicause it maketh a man well disposed, and doth fortisse and strengthen the natural heate, and causeth the superfluitie of the stongack to descend. And therefore Anicen doth say, that such as forgo this exercise, do fall into the inflammation of the hart.

Question. Why is is whole force to vomite, as diners fay?

Answer. Bicause it doth purge the stomacke of all naughtie humors; for it with expell greene and blew humors, which would breede agues, if they should remaine in the stomacke. And according vnto Anicen, a vomire doth purge the cies, the head, and make the braine cleane.

Question. Wi fleepe greatly firengiben she fle-

mache, and she digestine versue?

Anfrer. Bieaufe that in fleepe the heate doth drawe inward,

inward, and doth helpe the digestion: but when we'be awake, the heate doth remains about the senses, and is dispersed throughout all the body.

Question. Why do some men in some diseases, voide sheir mease downward, in she same qualistic and quantistic, as shey did

veceine it into the flomacke?

Answer. By reason of the weakenes of the naturall vertue of the appetitive power, attractive, digestive, retentive, and expulsive, which disease is called Lienteria.

### Of the blood.

Question. Why is it necessarie, that every lining thing which hath blood, have also a liver?

Is first made in the liver, bicause the blood the blood according vnto other Phistitions, & is drawen from the stomacke by certaine principall vaines, and so ingendred.

Question. Why is the blood red?

Answer. Bicause it is like vnto the part in which it is made, that is, vnto the liuer, which is of a red colour. And the blood is also sweete, bicause it is well digested and concosted : but if it have a little eatthly matter mixed with it, it is a cause that it is somewhat salt, as it appeareth in Aristor lib. meteor.

Question. Why have women thicker blood than men?

Answer. By reason of the cold which doth thicken,

binde, and congeale, and joine togither.

Question. Why dosh she blood come to all she parts of the

bodie from the liner, and by what weanes?

Anfore. By the meanes of the principall vaines, as the vaines of the head, of the liner, and such other, and to nourish all the bodie.

### Of vrine.

Queftion. T You dosh the wine come vato the bladder. I feeing the bladder is fhus?

Answer. Some say by sweating, and it seemeth to be true; but some say, that it commeth by a small skin which is in the bladder, which doth open and let in the vrine. Theophilatius doth fay, that the vrine is a certaine and not a deceitfull meffenger of the health and infirmitie of man. And Hippocrates doth lay, that men haue white wrine in the morning, and before dinner red, and after dinner pale, and likewife after fupper : for there are divers colours of the vrine, whereof we will not speake at this present.

Qualtion. Why dosh she dropfie proceede from she liver ? Answer. Bicause that ( faith Conft. ) the digestive power in the liver, cannot convert the thicke substance into the fower humors, but is converted onely into water, the which doth swell and puffe vp a man, and espesially the belly.

Of the gall.

Question. TTT Hy have lining creatures a gall? Answer. Bicause that cholerike humors are received in it, the which through their sharpnes do helpe the guts to expell superfluities, is doth also helpe the stomacke in digesting.

Question. Why doth the immdife proceede from the gall ? Answer. Bicause the humor of the gall is blewish and yellow: and therefore when the pores of the gall are stopped, then that humor cannot go into the lacke or bladder of the gall, but is mingled with the blood, wandring throughout all the bodie, and infecting the skin.

Question. Why have not a Horfe, a Mule, an Affe, and

row a gall t

Answer. Aristoile faith, that although those beasts have no gall in one place, as in a purse or vessell, yet they have a gall dispersed by some small vaines.

# Of the spleene.

Question. T T Hy w the Spleene blacke flesh ?

Answer. Bicause it is caused of a terrestrial and earthly matter, that is, of a blacke sub-stance, as Aristosle doth say. Now the effect is like vnto the cause. Another answer is according vnto the Phistons, bicause the spleene is the receptacle of melantholie, and melancholie is of a blacke colour.

Question. Why is a man leans which hath a great spleene s Answer. Bicause the spleene doth drawe much matter vnto himselfe, which should go into fat. And therefore contrariwise, men which have but a small spleene are fat.

Question. Why dosh the spleene cause men to laugh as Isidorus dosh say; we laugh with the spleene, we be angrie with the gall, we are wife with the hart, we laue with the liver, and we feele with the braine, and speake with the langs: that is, the cause of laughing, anger, love, wisedome, and speech, and seeling, dosh proceede from the spleene, the gall, the liver, the hart, the lungs, and the braine?

Answer. The teason is, bicause the spleene doth draw much melancholie ynto it, bicause it is his proper seare, the which melancholie is cause of sadnes, and is there consumed, and so the cause failing, the effect saileth. And that melancholie is cause of sadnes, it appears the in Aristotle in Process. de anima. and therefore that being consumed in the spleene, the contrarie vnto sadnes doth sollow, that is, ioy and gladnes. And for the same cause the gall cause thanger: for cholerike men are angric, bicause they have much gall. For the better understanding

### or ARISTOTLE.

standing of this, note that there bee foure humours in man, that is, blood, choler, sleume and melancholy; where each hath a speciall receptacle and place where it is received and kept. Of a drie and hot substance choler is ingendred, which goeth vnto the gall, as to his seate and place. But of a cold and drie humour melancholy is ingendred, which runneth to the spleene as to his peculiar place and receptacle. But of a cold and moist humour sleume is bred, which goeth vnto the lungs, as vnto his receptacle, or as the Phistions doe say, vnto the spleene. But the blood which is the most noblest humour, is ingendred in the liver, and there his proper place doth seeme to be.

# Of carnall copulation.

Question. W Hy do living creatures ofe carnall copula-

Answer. Bicause it is the most naturall worke which is in liuing creatures, to beget the like vnto themselves in kinde, to continue the kinde. For if carnall copulation were not, all kinde of living creatures had before this time perished.

Question. What is this carnall copulation?

Answer. It is a mutuall action of the male and female, with instruments ordained and deputed for that act, to maintaine the kinde. And therefore the diuines do say, that it is a sin to vse that act for any end, but for begetting his like in kinde.

Question. Why is thu action good in those to whom it is

lawfull, if it be moderately taken?

Answer. Bicause that according vnto Anicen and Const. it doth ease & lighten the body, cheere the minde, comfort the head and the sence, take away many griefes of melancholy, bicause it doth expell the sume of E

the feedfrom the braine, and it doth expell the matter of impostume. And therefore sometimes, through the intermitting of this act, the darkenes of the fight doth insue, and a giddines in the head. And therefore the feed of a man retained about a due time, is converted into some infectious humour.

Question. Why is immoderate carnall copulation burs-

full?

Answer. Bicause it doth destroy the sight, and drie the bodie: bicause that as Aristosle saith, 2. de gen. anim. lecherie and incontinencie is the wasting of the pure humiditie, and doth consume the braine: and it breedeth sharpe seuers, as Anicen teacheth, and as experience doth shew. And doth shorten the life of man, as Aristosle saith, de longis. & breuis. vise. And Albersus doth shew this in the sparrow, which by reason of his often coupling, doth line but three yeeres.

Question. Why doth carnall copulation verie much hurs so melancholy men, and cholericke men, and generally to leans

men ?

Answer. Bicause it doth drie the bones very much, which are drie of themselves. And contrariwise, it is good for the sleugmatike and sanguine, as Anicen saith, bicause they abound with that substance, which by nature is necessarily expelled. Although Aristotle doth affirme; that every fat creature both but small store of seede, bicause the substance of it doth turne into fatness.

Question. Why do not the female of brute beafts couet car-

nall coupling after they be great with young ?

Answer. Bicause that then the wombe or matrix is shut, and the flowers cease, and therefore the desire vn-to the act doth cease.

Question. Why should not this aff be used when the bodie

is full s

Anfwer.

Answer, Bicause it doth hinder digestion, as Aristotle faith: likewife it is not good for a hungry belly, bicaufe it dothweaken him.

Question. Why is it not good after a bath?

Answer. Bicause that then the pores are open, and the hear dispersed throughout all the bodie: and therfore carnall copulation following a bath, doth coole the body very much.

Question. Why is it not good after a vemite, or a loofenes

of the belly?

Answer. Bicause it is very perilous to purge twife in one day , as Hippocrates and Galen fay: but foir is of this act of carnalitie, and loofenes in the belly, bicause by this act the raines & kidneis are purged and the guts by the vomite.

Question. Why are wild beafts furious when they couple, as it doth appeere in Harts which bray, and Affes which are shen

almost mad, as Hippoc, faith?

Answer. Bicause their bloode is kindled with the defire of carnall act, and nature also doth labour to expell superfluities in them, which in the sence do dispose vnto anger and madnes: and therefore after the act done they are tame and gentle.

Question. Why is there such delight in the all of venery ? Answer. Bicause this act is a base and contemptible thing in it felfe, naught and vneleane, fo farre that all beafts would naturally abhorre it, if there should be no pleafure in it, and fo there should never be any carnall copulation, by reason of the vncleanes of it. And therefore in this delight nature doth willingly practife it, to the end that the kinds of living things should be maintained and kept.

Question. Why doe such as wie it of stake leffer delight in

it, then fuch which come to it feldome?

Answer. For three causes. First, bicause the passage,

of the feede is over large and wide, and therefore the feede maketh no flay there, by which flay the delight is had. The feeond, bicause that through often going togither, there is but little feede left, and therefore giveth no delight. The third, bicause that such in steed of seede cast out bloode vndigested and rawe, or some other waterie substance, which is not hot, and therefore causeth no delight.

Question. Whether can this carnall copulation bee done by the mouth, so that beasts may conceine thereby, as some do say of pigeons, which they say by kissing do this act at the mouth and conceine. And some say thus to be true in the Weesell or

ermine?

Answer. According vnto Aristotle, that is vntrue. For although pigeons doe play by the beake, yet they doe not couple togither this way nor conceiue. And bicause the weefel doth beare his yong ones from place to place in his mouth they are of that opinion. And therefore Aristotle doth shew it thus: Whatsoeuer goethin at the mouth, that is consumed by digestion: but if the seede should go in at the mouth, then it should also be consumed by digestion. The major is plaine, nor is no easie instance, and the conclusion dooth holde in Darij.

## Of the feed of man or beaft.

Question. Whereof commeth the seed of man?

Answer. There are divers opinions of Philosophers and Philitions in this point:
Some say that it is a superfluous humour of the fourth digestion. And some say that the seede is pure blood, slowing from the braine, concocted and made white in the stones. And some say that it is the superfluitie of the second or third digestion. But bicause sweate, veine, spettle.

spettle, sleume and choler are the like, Aristotle saith, that the seede is alwaies the superfluitie of the last nutriment, that is, of blood dispersed throughout all the body: but yet principally it commeth from the principall parts, that is, from the hart, liver, and braine. And an argument of this is, bicavie that those parts are greatly weakned in the casting out of seed: and thereof it doth appeare, that carnall copulation is not profitable nor good. But some thinke this to be true by over vehement practise in this act: for otherwise moderately taken it is good and wholesome, for the lightening and easing of the body, as is said before.

Question. Why is the seede of a man white, and the seede

of a woman red ?

Answer. It is white in man, by reason of his great heate, and bicause it is digested better, and made white in the stones, the sless of which is white, as the sless of the paps. But the seed of a woman is red, bicause it is the superfluitie of the second digestion, which is done in the liver, which is red. Or els we may say, that it is bicause the slowers are corrupt undigested blood, and therefore it bath the colour of blood.

Question. Whether doth the feede of man come from the

parts of the body, or from the humours ?

Answer. As some say, from the parts of the body: &that we proue, bicause we see that a same man doth beget a same childe, and a father which hath a skarre, a child which hath a skar, as Aristotle reporteth, bb.de animal. which could not be if the seed did not fall from the parts of the body. But some say that it commeth from the humors, bicause it is made of the last nutriment, & the nutriment is no part but a humor. But as for the lamenes & skar, that proceedeth from the imagination of the mother at the time of carnall copulation, as Arisforde saith, a de generat animal.

Question.

Question. Wherefore doth the imagination of the mother, which imagineth of an Aethiopian or Blackamoore, cause the mother to bring foorth ablack child: As Albertus Magnus reporteth of a Queene, who in the act of carnall copulation, imagined of a Blackamoore which was painted before hir, or so brought

fuorsh a Black amoore?

Answer. Anicen faith, that an imagination of a fall, maketh a man fall, and the imagination of a leprofic maketh a man a leaper. And so in this purpose the imagination is about the forming power, and therefore the childe borne followeth the imagination, and not the power of forming and shaping, bicause it is weaker then the other.

Question. Whether doth the feede of the man enter into

the substance and matter of the child?

Anfwer The feede of the father and the mother doth goe into the substance of the childe in the wombe; bicause that as creame doth goe into the substance of cheefe, fo the feed of man into the fruite in the wombe like vnto the creame, and the flowers of the woman dothenter in like vnto the milke. But this opinion doth not sceme to be offorce. And therefore according vnto Ariffotle, and other Philosophers, we fay that the feed dothnot goe into the substance of the childe; and it is prooued thus, bicaufe that fo the matter and the efficient cause thould be all one, which is against the Philosopher. The consequence is good, bicause the seede is the efficient beginning of the childe, as the builder is the efficient cause of the house, and therefore is not the materiall cause of the childe. It is prooued another way, bicause there is the felfe same materials eause of nourishment and generation, z.de anim. bicause wee have our being and our nourishment of the same matter : but the feede cannot bee the materiall cause of nourishment, according vnto Anerrow, & therfore not

of being. But in truth this it is, both the seedes are shue and kept in the wombe: but the seede of the man doth dispose and prepare the seed of the woman to receive the forme, perfection or soule, the which being done, it is converted into humiditie, and is sumed and breathed out by the pores of the matrix, which is manifest, bicause onely the flowers of the woman are the materials cause of the young one.

Question. Why doth the matrix or wombe of a woman draw greedily the seeds of man? for as Auerrois doth say, there was a maide in a hath, where some seeds had been cast, the which the maide drawing, did conceive with childe, and was deli-

siered ?

Answer. Averrois doth say, that the wombe and nature do draw the seed, as the Lodestone doth iron, and the Agathe steele: but she doth draw it for the perfection of hir selfe.

# Of womens monthly termes.

Question. Why have women monthly searmes or flo

Answer. Bicause they are colde in respect of men: and bicause all their nourishment cannot be converted into blood, a great part of it is turned into their flowers, the which in every moneth in every woman are expelled, I say of every woman which is in health, and of a certaine age, that is, after thirteene yeeres: for before they run not though she be in health, and some diseased women have them not.

Question. Why do they run from women?

Answer. Bicause it is an insectious matter: for as Aristotle doth saye, if that substance being young and flowing do touch a tree, or a greene bough of a tree, the tree doth die and not prosper: yea, Aristotle doth say,

that if a dog should taste of it, he would run mad in three daies. And therefore nature would expell it every moneth, as being an enimie vnto life. And if women doe detaine it about their due time, according vnto Aristotle, it dothbreede great infirmities and diseases, as swouning.

Question. Why do they not run before thirteene yeeres

of age?

Answer. Bicause young women be hot, and so doe digest all their nourishment: and therefore they are not bred in them before that age, nor expelled, vnlesse the goodnes or naughtinesse of their complexion doe hinder it.

Question. Why have not women them after fiftie yeeres

of age ?

and therefore they cease. But a better answer is, that then nature is weake in them, and therefore they cannot expell them, by reason of over much weaknes. And therefore there is great store of immundicities bred in them in one whole lumpe, and they are by that meanes so infectious, that they infect men with their breath, and then the cough and other infirmities come vpon them. And therefore according vnto the counsell of the Phistions, then men should abstaine from them.

Question. Why do not such women corrupt and infect them-

feines?

Answer. Bicause poison doth not worke vpon it selfe, but vpon some other object; or else it doth not hurt themselves, bicause it is their nature. Albertus reporteth of a certaine maide which was brought vnto him in Colen, which did eate spiders, which did hir no hurt at all, but were good meate vnto hir. And Aristosle in his booke of the government of Princes to Alexander, reporteth of a maide which in hir youth was nourished with

with poison. And some men have done the like.

Question. Why have not women with childe the flowers & answer. Bicause that then the flowers turne into milke, and into the nourishment of the childe: for if a woman with childe have them, it is a signe of miscarying with hir childe.

Question. Why do they run the first three moneshs in

gomen with childe, od a santav anias to o the tanis and, val

Answer. By reason of the smalnes of the child, which cannot take all that matter and substance.

Question. Why have not the female of brute beafts, as of

fowle and filb, their flowers?

Answer. Bicause as Aristotles and Albertus do say, in beasts which go with seete, the flowers turne into haire, in fish into their scales, in birds into their seathers. And therefore in beastes you may note that the semale is more hairie than the male, and the semale of sishes suller of scales, and the semale of birds suller of seathers.

Quellion. Why do she flowers receive their name Men-

firesa, of this word Menfis amoneth ? 20000 111 11 11 11000

Answer. Bicause it is a space of time which doth measure the Moone, bicause the Moone doth end hir course
in 29 daies and 14 howers. Now the Moone hath dominion ouer moist things, and bicause the flowers are an
humiditie, they take their denomination of the moneth, and are called monethly termes: for moist things
do increase as the Moone doth increase, and decrease
as she doth decrease.

Question. Why do they run longer time in some, than in other some: as in some fixe or seven daies, and ordinarily in all three daies?

Answer. The first are colder, and therefore they increase the more in them, and by a consequent they are the longer in expelling; and other women are more hor,

and

and therefore they have the fewer, and are a shorter time in expelling them.

Question. Where are she flowers keps before shey run?

Answer. Some say, in the matrix or wombe. But Amerrois doth missise this, and doth saye that the matrix
is the place of generatian, and that those flowers surther generation nothing at all. And therefore he doth
say, that there are certaine vaines about the backbone
which doe keepe them. And a signe of this is, bicause
that those women at that time have great griefe in
their backe, by reason of expelling the flowers.

Question. Whether are the flowers which are expelled, or

the flowers which the child is ingendred of, all one ?

Answer. No, bicause the one are vncleane, and vnsit for that purpose: but the other very pure and cleane, and therefore that blood is fit for generation.

Question. Why doe women which are gotten with childe when they have their flowers, bring foorth weake children, and

deprous ?

Mofwer. Bicause those flowers are venemous, yea a woman in hir flowers is most infectious. And so the cause doth shine in the effect, as the Philosopher doth say, the effect doth carrie a likenes of the cause, and sherefore such a childe is cuilly disposed of bodie.

Question. Why have not women their flowers all at one time of the moneth, but some in the new Moone, some in the full,

and fome in the wane.

Answer. By reason of their divers complexions. And although all women in respect of men be sleugmatike, yet of women among themselves, some are more sanguine than others, some more cholcrike. And as everie moneth hath his quarters, so they have their complexions: the first is sanguine, the second cholcrike. A woman which is of a sanguine complexion, hath hir slowers in the first quarter, a cholcrike in the second, a melancholic

lancholy in the third, and fo in the reft.

Question. Why have such women as are of a sanguine

complexion, their flowers in the first quarter?

Answer. Bicause that as Galen doth say, every such thing added vnto such a thing, doth make it more such, and therefore the first quarter of the Moone increasing blood in a sanguine complexion, therefore shee doth then expell it.

Question. Why have women their flowers fo ofs in the end .

of the monests ?

Answer. Bicause generally all women bee fleugmatike, and the last quarter is fleume. Or else this doth proceede of a defect, and therefore cold doth worke then to multiplie that matter, and the matter multiplied is then expelled.

Question. Why have women paine and griefe in the run-

ning of their flowers ? and an action with a contract to

Answer. Bicause it is like vnto the paine of the strangurie, that is, making of water drop by drop. For as the strangurie, by reason that the drinke is undigested, doth offend the subtile passage of the vrine, as it doth happen after a bath, so the flowers which are an undigested and earthly substance, do hurt the passage by which they goe.

Question. Why doth a woman easily conceans after his

flowers are run from hir good at nomes and allemante, acts

Answer. Bicause she is better prepared vnto conception, as being made cleane from hir flowers.

Question. Why do women looke pale when shey purge their

flowers? the nation from theme, drapping black

Answer. Bicause then the heate goeth from all the outward parts of the bodie to the inward to helpe nature, and to expell the flowers, the which deprivation of heate doth cause a palenesse in the face. Or else it is, bicause that fluxe is caused of rawe humors, the which when

when they run, do make the face colourlesse, and so by a confequence cause palenesse.

Question. Why doth a woman which hath hir flowers de-Breadly that as County It's

seff bir mease?

Anfrer. Bicause nature doth labour more to expell the flowers than to digeft, and therefore if the should cate meate, that meate would remaine rawe, which carefull nature doth not admit.

# Of barrennes.

and the late the market is the distriction Question. T 7 T 7 Hy are some women barren and cannot

Answer. According vnto the Phisicions, for divers reasons. The first is, bicause it proceedeth sometime of the man, that is, when he is of a cold nature, bicause then his feede is vafit for generation. The fecond, bicause his seede is somewhat waterish, and therefore doth not fray in the wombe. The third, bicause the seede of the man and the woman have not the fame proporcion, as if the man be melancholic, and the woman fanguine: or if the man be cholerike, and the woman very Beugmatike: bicause as it is euident in Philosophie, the agent and the patient ought to have the fame proportion otherwise the action is hindered.

Question. Why doe fat women feldome conceine with

ehilde?

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Answer. Bicause they have a slipperie wombe, out of which the feede flippeth, and is not holden in. Or elfe bicause the mouth of their matrix is very strait, that the feede cannot enter in : or if it do go in, it goeth in very flowly, fo that the feede doth waxe cold in the meane time, and fo is vafit for generation, and is refolved into afleshie substance.

Question.

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Question. Why do women of a very hos complexion fel-

Answer. Bicause that the seede received in them is extinguished and put out, as a little water cast into a great fire. And therefore we do see that women which do vehemently defire the slesh, seldome conceive with childe.

Question. Why are common women and whoeres never

Answer. By reason of divers seede which doth corrupt and spill their instruments of conception: for it maketh them so slipperie, that nature cannot retaine the seede. Or else it is bicause one seede doth destroy another, and so neither is good for generation. And note out of Alberson, that the best remedie to helpe conception, is to take the matrix of a Hare beaten into powder, and purished in drinke, which worketh much to conception.

# Of conception.

Question. Why doe some women conceane a male-

Answer. If the seede do fall into the right side of the matrix or wombe, then a male-childe is begotten, bicause that side is hotter than the other, and heate doth principally worke to the begetting of a male-childe. And therefore as Alberta doth say, if the right side of the woman doth swell, it is a signe that she goeth with a male-childe. But some do give another reason, that is, when the seede of the father hath dominion over the seede of the woman, then a male-childe is begotten: if the womans do prevaile, then it is a semale.

Queltion. Why do some women conceane a female-childes

Anfwer. Bicause the seede is fallen voto the left fide of the matrix, which is colder than the right, by reason of the spleene joining vnto it, which helpeth cold. And as Albertus doth fay, when the woman after the act of copulation doth lie on the right fide, it is a boy : when on the left, it is a wench : for the feede doth run to that fide on which the woman doth lie, and then fuch a child

Question. Why hath a woman a wombe?

Anfirer. Bicaufe it is the proper place of generation, and is placed in the middeft of the woman. For as all the immundicities of a citie doe run vnto the finke, fo all their monethly tearmes run to the wombe or matrix, every see not apply at no branch but

Question. Why have some women long and slender chil-

dren, and some short and thicke?

Answer. Bicause as Galen and Auerrois doe fay, the childe is formed according vnto the quantitie of the wombe. And therefore bicause some women have a long and a narrow wombe, their children be long and flender: and some contrariwise short and large, therefore their children be short and thicke.

Question. Why doth a woman formsime concease twins?

Answer. According vnto Galen, bicause there are seuen cels or receptacles of feed in the wombe, and therefore a woman may naturally have fo many children at once, as there doth feede fall into those cels : for there are three in the right fide, and three in the left: in the right fide boies are ingendred, and in the left wenches. And in the middeft of those cels or chambers, there is another, where old writers do fay a Hermaphrodite is ingendred, that is, one who hath the fecret parts of both fexes. And therfore if a woman should have more than feuen children at once, it should rather be miraculously than naturally. M.

Question.

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Question. Why are twins but halfe men, and not fo firing

a osber men ?

Inould have beene for one man, is divided into two, and therefore they be weake, and in truth they do not oft live long.

# Of Hermaphrodites.

Question. L Tow are Hermaphrodites begotten? 1 Anfwer. Bicause there are three principall cels in the wombe, one in the right fide, another in the left, and the third in the middle, into the which when the feed doth fall, a Hermaphrodite is faid to be begotten in this manner: bicause nature doth alwaies tend vnto that which is best, therefore she doth alwaies intend to beget the male, and not the female, bicause that the female is onely for the males sake, and a monster in nature. Therefore the male is somtime begotten in all principall parts, and yet through the cuill disposition of the wombe, and object, and inequalitie of the feede, when nature cannot perfect & end the male, the doth bring foorth the female, or Hermaphrodite. And therefore the naturall Philosophers do say, that a Hermaphrodite is impotent in the privile part of man, as it doth appeare by experience.

Question. Why doth not nature dispose in him two secres parts of a man, or two of a woman, but one of a man and one of a

woman ?

Answer. Bicause then nature should make one of them in vaine: but that is against the Philosophers, when they say, that God and nature do make nothing in vaine.

Question. Whether is a Hermaphrodise to be reckoned

Anfwer.

It is to be confidered in which member the is fittest for the act of carnall copulation : if he be fittest in the womans act, then it is a woman: if in the mans, he is a man.

Question. Whether should he be baptized in the name of

aman,or of woman?

Answer. In the name of a man, bicause names are given ad placium, and therefore he should be baptized according vnto the worthiest name, bicause every man is worthier then a woman, bicause every agent is woorthier then his patient, as Aristotle doth say, 3. de anima.

Question. Whether shall be stand in judgement in the

name of a man, or of a woman?

Answer. According vnto the rule of the law, he should first sweare, before he be admitted into judgemente, which secret part he can vse, and so is to be admitted, according vnto the vse and power of that part.

# Of Monsters.

Question. Dosh nature make any monsters?

Answer. She doth, 2. Phys. for if she did not, shee should then be deprined of her ende. For of things possible she doth alwaies purpose to bring forth that which is most perfect and best: but in the ende through the cuil disposition of the matter, and influence of some special constellation, not being able to bring foorth that which she entended, bringeth foorth that which she entended, bringeth foorth that which she can. As it did happen in Alberton time, where in a certaine village a cow brought foorth a calse halse a man: then the countrey men suspecting a shepheard, would have burned him with the cow. But Alberton being skilfull in Astronomie, said, that this did proceede from some special constellation, and so delivered the shepheard from their hands.

Thefe

Thefe are Albertus words:

We saw that their two bodies were joined in nothing but in the backe, they had two heads, foure seete, foure hands, and did go which way they lusted. And he saith, they reported vnto vs that there were two men joined in the backe, and were of a contrarie complexion, the one furious, and the other meeke: they lived two yeers, and the one died, and the other lived long after, vntill the stinke of the other did kill him. I aske how can this beat it is answered thus: bicause the seede is cast vnto the cels or receptacles of the wombe, which seede was ynough for two children, and then by chance it doth sometime happen, that the skinne or distance betwirt the two cels or receptacles is broken, and they knitte and joine in the backe, and have two heads.

Queftion. Whether be they one or two?

Answer. Aristotle saith, you must looke vnto the harr, and if there bee two harts, there be two men.

Question. Why is a man borne sometime with a great

head, or fixe fingers in one hand, or with foure ?

Answer. Aristotle saith it proceedeth of superfluitie and abundance in matter: when there is too much matter, then he is borne with a great head, or fixe fingers: but if there be want of matter, then there is some part too little, or lesser then there ought to be.

# indulina Of Infants.

Question. Why are some children altogisher like the father some like the mother, some to

both, and some unto neither?

Answer. If the seede of the father do fully ouercome the seede of the mother, the child doth wholly resemble the fathers but if the mothers seede predominate,

then he is like vnto the mother but if he be like neither, that doth happen for many causes: sometimes through the foure strit qualities: sometime through the influence of some heavenly constellation. Albertus giveth an example, and saith, that there was on a time a good constellation for the begetting of hogs, and a child was then begotten and brought foorth which had a face like vnto a hog; and according vnto this, divers forts of monsters are brought foorth.

Question. Why are children ofiner like the father then

she mosher?

Moster. That proceedeth of the imagination of the mother, which thinketh of the disposition of the father in the act of carnall copulation. And therefore by reafon of the strong imagination in the time of conception, the children get the disposition of the father. As it appears the before of the Queene which had hir imagination on a Blackamoore: and of an AEthiopian Queene which brought foorth a white childe, bicause her imagination was upon a white colour. And this is seene in Iacob his skill in casting roddes of divers colours into the water, when his sheepe went to ramme.

Question. Why do children fomesime resemble more sheir grandfashers and great grandfashers, then sheir parents?

Answer. Bicause the vertue and force of the grandfather is grassed in the harts of the begetters: and it may be said, that sometime it doth proceed of the similitude of the nouriture, and then the child is formed by the similitude of the grandfathers.

Question. Why are the parts of a childs body of diners

qualitie, and fome foft ?

Answer. This proceedeth of the predomination of diuers elements, bicaufe that the bones are made of a serrestrial matter, and therfore are hard. But the braine

and the marrow are made of a more waterie matter. & therfore are more foft: but the vitall spirits and animal spirits are ingendred of a more actious substance, and these vitall spirits are principally in the liner and the

Question. Why do children, according unto the common course and ofe of nature, come out of the mothers wombe the ninth moneth? . 2 3 to the set of the set of the bit coloni

Answer. Bicause the child is then fully perfect, or els it is bicaufe fome benigne planet dothraigne; as lupiter, who is a friend vnto nature: for according vnto the Astronomers, he is hot and most, and therefore doth temper the malice and naughtines of Sarurne, which is cold and drie. And therefore for the most part children borne the ninth moneth are healthy.

Question. Why doe children borne in the eight moneths end, for the most part, die quickely? and why are they called the

children of the moone?

Answer. Bicause the Moone is a colde planet which hath dominion over the child, and therfore doth binde the child with his coldnes, which is cause of his death.

Question. Why doth a child cry as soone as he is borne?

Answer. Bicause of the sudden change from heate to cold, which cold doth hurt his tendernes. Another reason is, bicause the childs fost & tender bodie is wringed and pur togither, comming out at the narrowe and ffraite passage of the matrix. And especially the braine being moift, and the head preffed & wringed togither, is cause that some humours do distill by the cies, which are the cause of teares and weeping. The Diuines saie, it is for the transgression of our first fathers, and origisall Gene up meatered and a constructed w.

Question. Why doth a childe put his finger to his mouth when he commesh first into the world?

Anfwer, Bicaufe that comming out of the wombe, he commeth

commeth out of a horbath. And therefore entring into the cold, putteth his finger to his mouth for the want ofheate.

Question. How doth a child come into the world out of the

wombe ?

Anfwer. He commeth foorth with the head forward: for if he should come with the thighs or arms forward, he should kill himselfe and the mother.

# Of the young one in the wombe.

Question. I IOw is the young one successively ingendred in the wombe ?

Anfwer. The first fixe daies the feede hath the colour of milke, but in fixe daies following a red colour, which is neere vnto the disposition of flesh, and then it is chaunged into a thicke substance of blood, curded and confiftent not running, like vnto a maffe of flesh: but in the twelve daies following them, this substace is made fo thicke and found, that it is able to receive shape and forme: bicause that a fluid and running substance keepeth no impression, and so every day receiveth some other disposition vntill his birth. And how he is gouerned euerie moneth by the planets, Boesius doth teach elsewhere.

Question. Whether doth the child in the wombe voide any

excrement, or make water ?

Answer. No, and the reason is, bicause he hath not the first digestion which is in the stomacke, bicause he receiveth no meateby the mouth, but it commeth to him at the nauell; and therfore he maketh not water. but doth sweate, which wrine is but little in quantitie. is referred in a small skin in the matrix, and at his birth is cast out in abundance.

Question. Why doth she child come out of she we n'ismalah

Answer. Bicause, saith Galen, when the fruite is ripe, then the ligaments are easily broken, & so it falleth easily.

# Of abortment, or vntimely birth.

Question. WHy doe women which ease vinwholesome meases, as vammish putrified meases,

easily miscary?

Answer. Bicause it breedeth putrified seed in them, which the minde abhorring, doth cast out of the fields of nature, that is, out of the wombe, bicause it is write for the most noblest shape, that is, for mans forme & shape, which is apt to receive the soule.

Question. Why doth wrestling and leaping cause the ca-

fling of the child, as some craftie women do of purpose?

Answer. Bicause that by such leaping, the ligaments of the child are loosed, and by a consequence there followeth abortment, bicause it can be no longer kept in the wombe.

Question. Why dorh the striking of thunder or lightening

cause a woman to miscarie ?

Answer. Bicause that that vapour is burning, and doth easily hurt the tender substance of the child, entring in at the pores of the matrix or wombe. Yea, Albertus doth say, that if the childe were aliue, lightening and thunder would kill him.

Question. Why doth thunder and lightening rather cause

young women to miscarie shen old?

Answer. Bicause the bodie of yoong women are suller of pores, and more stender, and therefore theyapour of lightening doth sooner enter into their bodie; but old women have a thicke skin, and well compacted, and therefore the vapour cannot enter in and cause this abortment.

Question.

Question. Why doth much by cause a woman to miscarry with burden?

Answer. Bicause that in time of joy the wombe is defittute of heate, and by a consequence miscarying doth follow. The same reason doth cause seare to breede it, bicause then the heat runneth to the hart to helpe him and for saketh the matrix.

Question. Why doe women easily miscarry when shey are newly with child, that is, the first, the fecond, & third moneth?

Answer. Galen faith, that as apples or peares do easily; fall in the beginning, bicause the knots and ligaments are soft and weake; so it is of a child in the wombe.

Question. Wherfore is it hard so miscarry when they are, gone the middle of their time, that is, three, foure, fine, sixe moneths?

Answer. Bicause that then the ligaments are ftronger. &fortified, and therefore are not castly broken.

# Of divers matters.

Question. W Hy have some women greater griefe then othersome in childbirth ?

Answer. For three causes. Sometimes for the greatnes of the childe, or bicause the Midwise is vnskilfull. Somtime bicause the child is dead, & then boweth not, nor cannot be bowed in going foorth. And for the contrary causes, some have lesse paine.

Question. Why hash not a man a tayle like worse other beafts?

Answer. Bicause a man is a living creature, whose propertie is to sit: but this is proper to no other beasts which hath a taile.

Question. Why doe such as keepe baths or hot houses, expell the hease out of the furnace better with colde water then with hot?

Queltions

Answer.

Answer. Bicause they are contrary qualities, which worke strongly the one against the other, and therefore the heat is better expelled from the stones.

Answer. Bicause that that water is thinner, and by a consequence giveth better entrance to the cold.

Question. Why are men faster about the belly, then in

osher places?

Answer. Bicause the greatest digestion is in the stomacke, and therefore those parts which are neerest vnto the stomack, are greatest and fattest.

Question. Why is every living creature sad after carnall

copulation?

Answer. Bicause the act is filthie and vncleane, and so every living creature doth abhorre it, and when men do thinke vpon it, they are ashamed and sad.

Question. Why cannot drunken men judge of safts as well

as fober men ?

Answer. Bicause the flesh of the toong is full of pores, and spungic, and receiveth great moisture in it, and more in drunken men than in sober. And therefore their toong through often drinking, is full of naughtie humors, and by reason that it is so full, the instrument of taste is made thicke and grosse, bicause that taste is a vaine of the toong, a subtile thin sless being taken away. And therefore through the thickning of the meane, that is, of taste it selfe, drinke taken of drunkards is not perfectly felt, bicause that vnto due sceling, there is requisite to have a due proportion of the mean. And of this it is also vnderstood why drunkards have not a perfect kind of speech.

Question. Why have melancholy beasts long eares, and why are not men wife for the most part, which have long eares, but

such as have shore, as Aristotle faith in lib, de animal,

Anfwer. The cares do proceede of a colde and drie

substance, which is called a gristle, which is apt to be come a bone. And bicause melancholye beasts doe abound in this kinde of substance; therefore they have such long cares.

Question. But why are the others halfe fooles ?

Answer. Bicause the minds and soules do follow the bodies: for if the sences of the bodie be subtle, then the soule exerciseth subtile operation, as well active as speculative, and the contrarie is in a grosse body

Question. How is the intellectual foule ioined to the child in the wombe of the mother? whether doth the father which begesteth him, make the matter apt and fit to receive the foule?

Answer. The answer is, as the Divines do say, that into a matter or substance sufficiently disposed & made fit, God doth insufe the intellectual soule. And S. Augustine saith the like: The soule in creating is insused, and in insusing is created.

Question. Why doe Hares fleepe with their eies

open?

Answer. Bicause they have their eies standing out, and their eie lids short, and therefore they are hardly shut. Another reason is, bicause they are verie fearfull beasts, and therefore for the safegard of themselves, they sleepe with their eies open.

Question. Why do not Crowes give their young ones meat

before shey be nine daies old?

Answer. Bicause that seeing them of another colour, they thinke that they are of another kinde, and in the meane space, almightie God doth seede them with the dew of heaven, as the Psalm doth say: He who doth give beasts their food, & yong crowes which call vpon him.

Question. Why are sheepe and pigions very mild beasts?

Answer. Bicause they want gall, & it is the gall which girreth vnto anger.

Question. Why have birds their flones inward?

Anfwer.

Answer. If they had them outward, they would hinder their flying and lightnes.

Question. Why do not birds piffe ?

Answer. Bicause that that superfluitie which should be converted into vrine, is turned into seathers: as it appeareth bicause there is much moistnes in the seathers. Another reason is, bicause they are in continuals mooning, and therefore much moisture in them is dried up by the aire and winde.

Question. Why are long egs a signe and eaufe of the male,

and the flat short egs of the female?

Answer. Bicause that as it pleaseth Hippocrases, it is the condition and propertie of heate, to send from the centre, to the circumference of cold. And therefore if there be any long egs, it is a signe they have great heate, and therefore they passe into the substance of the male: bicause that in every kinde of thing the male is hotter than the semale, as the Philosopher doth say. If the egs be short and flat, it is a signe that the heate is small, and undispersed, and therefore goeth into the substance of the semale.

Question. Why do we heare bester in the night than in

the day?

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Answer. Bicause, as Aristotle doth say, there is greater quietnes in the night than in the day, bicause the sunne doth not so well draw up vapors in the night as in the day, and therefore the meane is more fit and readic, and the meane being sit, the motion is better done by him, the which is said to be done with a sound. Another reason is, bicause there are more motions of the aire and sound in the day than in the night, which do hinder one another. Also in the night there is greater silence, which is opposite unto sound, and things opposite put one against the other, shew the better.

Question. Why doth aman laugh forner if he be souched

vader the arme piss, than in any other part of his bodie ?

Answer. Bicause there is in that place a meeting of many sinewes, and bicause the mean we touch by (which is the sless) is more subtile there than in other parts, and therefore a better feeling. And this is true, if that place be not touched too hardly: for if you do so, then there is not that delight: and when a man is moderately and softly touched there, the spirits which are there, are dispersed and run into the face, and then from thence are cause of laughter.

Question. Why is wood burned converted into a blacke

cole, and a bone burned into a white fubstance ?

Answer. Bicause the wood before it was burned was reasonable moist, and so after burning getteth heate accidentally, and that heate is not able to consume all the moisture of the wood, and therefore there remains the moisture of the wood, and is converted into a black substance, bicause that the humiditie in the wood was slimie, and could not be altogither consumed by the fire. But a bone of his owne nature is cold and dry, having but small moisture in it, which the burning doth wholy consume, and so accidentally the moisture being consumed the bone waxeth white.

Question. Why do some women love white men, and some

blacke?

Answer. There are two answers: Some women have a weake fight, and such delight in blacke, bicause the white doth hurt the fight more than blacke. The second reason is, bicause like doth delight in the like: but bicause some women are of a hot nature, such are delighted with blacke, bicause blacknes doth followe heate. And some of them are of a cold nature, and those are delighted with white, bicause cold is the mother of whitenes.

Question. Why de lining creasures fleepe?

Answer. For necessitie, bicause the instruments of diuers actions are wearied he being long awake, & by rest which is in sleepe, they are comforted, as Aristotle saith.

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Question. Why are students readie to sleepe after dinner, if they go about to studie, and not if they solace themselves?

Answer. Because that when a man doth applie his minde to studie, the naturall heate goeth from the outward parts of the bodie to the inward, and there is strengthened, bicause there commet h much of it together, and so causeth a sume to ascend from the meate to the head, which is the cause of sleepe. Or else we may answer, that when the power or vertue with which we line is strongest, the naturall power is weakened. But when a man doth solace himselfe by his pleasure, the naturall heate is spread abroad, and suffereth no vapor to ascend vnto the braine, and so he sleepeth not, but is kept from sleepe, by reason that the heate is dispersed.

Question. Why do men willingly fleepe after labor ?

Answer. Bicause that through continual mooning, the heate is dispersed to the external parts of the body: the which after that the labor is past, gathereth together to the internal parts of digestion, there to digest. And from digestion vapors do rise from the hart to the braine, the which do stop the passages, by which the natural heate should be dispersed to the external parts: and then the external parts being colde and thicke, by reason of the coldness of the braine, sleepe is procuted. And by this it appeareth, that such as eate much and drinke much, do sleepe much and long, bicause great store of humours and vapors are bred in such, which cannot be digested and consumed of the natural heate.

Question. Why are such as sleepe much enill disposed, and have an ill colour ?

Ouethorn

Anfwer.

Answer. Bicause that in sleepe much moisture is gathered togither, which cannot be consumed, which is
expelled in waking: & so it doth couet to go out through
the superficiall parts of the bodie, and especially it coueteth to the face, and so is cause of a bad colour: as it
appeareth in such as be sleugmatike, who desire more
sleepe than others.

Question. Why doth it appeere vnto some in their sleepe

that shey eate and drinke sweete shings ?

Answer. Bicause the sleume drawen vp to the lawes, doth distil & drop to the throte, and this sleume is after a fort sweete, and therfore that seemeth so vnto them.

Question. Why do some dreame in their sleepe that they be in the water, and drowned, and some that they be in the water and not drowned: and this doth happen especially in such as

ere fleugmatike?

Answer. The reason is, as Aristotle saith, bicause the sleugmatike substance doth run to the high parts of the bodie, and then they thinke that they are in the water and drowned, and when that substance draweth vnto the internal parts, then they thinke they escape. Another reason may bee, ouer much repletion and drunkennes: and therefore when a man is ouer much silled with meate, the sumes and vapors ascend and gather togither, and therefore they thinke that they are drowned and strangled: but if they cannot ascend so high, then they seeme to escape.

Question. May any man procure a dreame by an external

ennfe ?

Answer. Aristotle holdeth that it may be done. If a man do speake softly at a mans cares, and awake him, then of this stirring of the spirits, there are thundrings and buzzings in the head, and so a dreame of that. And so some men have dreames by divine revelation, when it pleaseth God to send any.

Question.

Question. How many humors be there in mans bodie?

Answer. Fower: whereof euerie one hath his proper place in mans bodie. The first is choler, which the Phisitions do call flana bilis, and is placed in the liner. The second is melancholic, called arra bilis, whose seate is in the spleene. The third is fleume, whose place is in the head. The fourth is blood, whose place is in the head.

Question. What conditions and qualities hath a man of

a fanguine complexion?

Answer. He is faire and beautifull, he hath his haire for the most part smooth, he is bold, he retaineth that which he hath conceived, he is shamefast, given to musicke, a louer of sciences, liberall, curteous, and desireth not revenge.

Question. What properties do follow a fleugmatike com-

plexion ?

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Answer. They are of a dull wit, their haire never curle, are seldome very thirstie, they are much given to sleepe, they dreame of things belonging to water, they are fearfull, couetous, and given to heape vp riches, and are weake in the act of venerie.

Question. What properties do follow she cholerike man ?
Answer. He is furious and angric, quarrelsome, given
to war, pale coloured, he is vnquiet, drinketh much, sleepeth little, and desireth much the companie of women.

Question. What properties des follow the melancholie

man?

Answer. He is swarthie, browne of complexion, his vaines hidden, he eateth little, and digesteth lesse: when he dreameth it is of darke consused things, he is sad, fearfull, exceeding couctous, and incontinent, valesse he bridle his affection.

Question. What dreames do follow these complexions?

Answer. Pleasant merrie dreames do follow the sanguing

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guine complexion: fearefull dreames the melancholy: the cholericke dreame of chiding, fighting, and fire: and the fleugmatike of water. And this is the reason why a mans complexion is saide to be knowne by his dreames.

Question. What is the reason that if you cover an egge over with salt, and let him lie in it a sewe dates, all the mease

within him is confumed?

Answer. The great drines of the falt doth consume the substance of the egge: but in fand some say they may be kept long, as Mariners do practife.

Question. Why is the melancholie complexion the woorfl

of all complexions?

Answer. Bicause it is the dregs of the bloud, which is an enimie to mirth, and farthest off from the beginning of mans life, and bringeth old age and death, bicause it is dry and cold.

Question. Why are the fleugmatike for the most part dull

of wit?

Answer. Bicause that as the vivacitie of wit proceedeth of heate, so of cold the contrarie, which they are subject vnto.

Question. Whereof doth it proceede that some men die

with extreme ioy, and fome with extreme griefe?

Answer. Ouer great toy doth over much coole the internall parts of the bodie, and over much griefe doth drowne and suffocate the heate, the which failing a man dieth.

Question. Why hash man fo much haire on his head?

Answer. The haire of the head doth proceeds of the vapors which rise from the stomacke, and ascend to the head, and also of the superfluities which are in the braine; and these two passing through the pores of the head, are converted into haire, by reason of the heate and drinesse of the head. And bicause mans bodie is full

full of humors, and bath more braine than other creatures, and also more superfluitie in the braine, which the braine expelleth, it followeth that he hath more haire than other liuing creatures.

Question. How many waies is the braine purged, and other

hidden parts in the head ?

Answer. The waterie and groffe humors are purged by the eies, melancholie by the eares, choler by the nose, and fleume by the haire.

Question. What is the reason that some blush and change

colour, when they heare that which they would not?

Answer. Shamefastnes is a certaine kinde of anger and displeasure, and scare ioined togither, as when a man is offended against himselfe, or against anothers & therfore whe we see or hear som thing to be disconered, which our selves have done naughtily, or woulde not have knowne, the anger which we conceive is greater then the seare, and therefore the bloode runneth to and fro, in the end remaineth in the highest part of the bodie, vntill the spirits bee quiet and pacified, and the passion gone.

Question. What is the reason that such as are very fat in

their youth, are in danger to die on the fudden ?

Answer. Such haue their vaines very smal and close, by reason of their fatnes, that the aire and breath can hardly haue free course in them, and thereupon the naturall heat wanting some refreshment of the aire, is put out, and as it were quenched.

Question. Why doe garlike and onions growe when they

are gathered ?

Answer. It proceedeth of the great humiditie which is in them.

Question. Why do men feele she cold somer shen women?

Answer. Bicause that men, being more hot then women have their pores more open, and therefore the colde

cold doth fooner enter into them, than into women.

Question. Why are not old men fo much Subject waso the

plague, as young men and children?

Answer. They are cold, and therefore their pores are thut up, and not so open as in the youth, and therefore the infecting aire doth not penetrate so soone as when they are open, as in youth, by reason of their heate.

Question. What is the reason that lime is set on fire, and

on a greater heate, by cafting water on it?

Answer. Lime is hot of nature, and therefore when water is cast on it, it sleeth from the colde, and by vniting his force, gathereth a greater heate and strength, and so is set on fire. And that is also the reason that a candle doth burne faster in the winter than in the sommer: for then, by reason of the compassing colde, the heate vniteth it selfe, and gathereth the closer to the tallow or waxe, and so doth consume it the faster.

Question. Why doe we caff water in a mans face which

doth fwoune ?

Answer. Bicause that through the coldnes of the wa-

Question. Why are those waters best and most delicate,

which run towards the funne rifing?

Answer. Bicause that running towards the sunneriching, they are soonest strooken with the sunne beames, and made pure & subtile, bicause the sunne hath them long under him, and by that meanes taketh away their coldnes, and other grosse vapours, which they take of the ground they run by.

Question. Why have women such weake small voices?

Answer. Bicause their instruments and organs of speaking, by reason they are cold, are small and narrows and therfore receiving but little aire, causeth the voice to be small and effeminate.

Question. Whereof dosh is proceede, shas wans of fleepe dosh

dosh weaken the bodie, and the braine?

Answer. Much watching doth ingender choler, the which being hot, doth drie vp and lessen the humours which conserve the braine, and the head, and other parts of the bodie.

Question. Whereof doth is proceed that vineger doth stanch

blood?

Answer. It proceedesh of his cold versue, and all cold naturally is binding, and vineger being colde, hath the like propertie.

Question. Why is the fea water falter in sommer then in

winter !

Answer. This doth proceed from the heat of the fun, feeing by experience, that a falt thing being heated becommeth more bitter.

Question. Why is smoake contrary onto the eies?

Answer. Bicause that in the eies there is a delicate and pure chrystalline humour, and the eie is also colde, and without any colour at all, at the smoke is grosse and hot, and by that meanes doth pierce the humours of the eies and hurt them. And if the eie had any colour in him, all things set before him would seeme to be of the same colour. And bicause the eie is cold, and the smoke hot, it doth cause the vapors which are contained in the eies, to drop and distill, which is hurtfull for the eies.

Question. Why doe men line longer in hot regions then in

Answer. Bicause they are more drie, and by that meanes the natural heate is better conserved in them, then in cold countries, bicause the cold doth exanguish the heat.

Question. Why is well water feldome or never good?

Answer. All water which standeth still in his spring, & it never heated wich the sunne beames, is very heavie,

and hath much earthly matter in it, and therefore wanung the heate of the funne is naught.

Question. Why do we fleepe better, and more at our cafe

on she right fide, then on the left?

Anfwer. Bicause that when we lie on the left fide, the lungs doe lie voon and couer the hart which is on that fide vnder the pappe. Now the hart being the fountain of life, being thus occupied and hindred with the lungs, cannot exercise his owne proper operations, as being ouer much heated with the lungs lying on him, & therefore wating the refreshing of the aire which the lugs do giue him, like the blowing of a paire of bellowes, is choked and fuffocared: and lying on the right fide, thefe inconueniences are auoyded.

Question. Whereof dosh is proceede, that the holding of

she breash dosh canfe she yexing to go away !

Answer. Bicause the holding of the breath dooth heat the internall parts of the body, and this heate chafeth away the yexe, being nothing els but a colde aire within the bodie.

Queftion. What is the reason that old men doe sneefe with

difficultie ?

Answer. Bicause that through their coldnes, their arteries are very narrow and close, and therefore the heat is not of force to expell the cold: for I thinke that fneeling is like voto the combat in the aire made by thunder, which is caused of heate and cold.

Question. Why doth a drunken man thinke that all things

do surne round about him?

Answer, Bicause that the spirits which serve the fight, are mingled with vapors and fumes of the wine; &then the overmuch heat caufeth the eies to be in a continuall moouing, and the eie being round, causeth all things about him to feeme to go round.

Queltion. Whereof dosh is proceed that she bread which

sade wish falt, is lighter then that which is made wishout is

confidering shat falt is very beaute of it fetfe?

Anfwer. Althoughbread be heavie of it felfe, yet the falt drying it, doth make it light, by reason of the heate which it hath, which heat doth drie: and the more falt there is in it, the better the bread is and the lighter, and the more holesome for the body.

Question Why is not new hot bread good for the stomack ! Anfwer. Bicause it is full of moistnes, and thicke and hor vapors, which do corrupt the blood: and hot bread is blacker then cold, bicaufe hear is the mother of blacknes, and bicaufe the vapors are not gone out of it.

Question. Why doth lessife cause a man to sleepe ? Anfwer. Bicaule they do ingender groffe vapors.

Question. Why dosh she dregges of wine and oyle go so she

bossome, and shofe of honey frim uppermoft?

Answer. Bicause the dregs of wine and oyle are earthly, and no way purged before, and therefore being of the nature of earth, do go to the bottome. But honie is a liquor, which commeth from the stomacke and bellie of the Bee, and was there in some fort purified and made subtile, and by that meanes that which remaineth is light and hot, and therefore goeth vpward.

Question, Why doe cats eies and woolfes eies (hine in the

night, and not in the day?

Answer. The cies of these beafts are by nature more chrystalline, then the eies of other beafts, and therfore do fhine as they do; but the brightnes of the fun doth hinder them to be feene in the day time.

Question. What is the reason that some men, when they fee others dannee, do she like wish their head, or feese, or by fome

wher gefture of their bodie?

Anfeer. The answer is, bicause that the light having parried and represented vnto the minde that action, and

and indging the same to be pleasant and delightfull, & therefore desiring it, the imagination draweth the likenes of it in conceit, and so stirreth up the bodie to those gestures.

Queltion. Why dosh much fleepe caufe some so growe fat,

and fome leane ?

Answer. Those which are of a hor complexion, when they steepe, doe consume and digest the superfluities of that which they have eaten, and for that cause become fat. But such as are of a colde complexion, when they steepe are more cold, and so digest lesse.

Question. How er fer what cause do me suffer hunger bet-

per shen thirft ?

Answer. When the stomacke hath nothing to consume, it consumeth the sleume or humors, which it sindeth most readie and most at hand, and therefore wee suffer hunger better then thirst, bicause the heate hath nothing to be refreshed withall.

Question. Why desh she haire fall after a great sicknes?

Answer. When the sicknes is long, or an ague, the humors of the head are dried vp, through over much heat,

and therfore wanting nourishment, they fall.

Question. Why dosh she haire of the eie browes grow long in old men?

Answer. Bicause that through their age, the bones of the eie-lids are thinne, by reason of want of hear, and therefore the haire doth growe there, by reason of the rheumes of the eies. The like doth happen to such as imagine much, bicause that with their heat they drawe many humours to the forepart of the head, where the imagination is placed.

Question. Whereof proceedesh gaping?

Answer. Of groffe vapours which occupie the vitall spirits of the head and the sences, and are cold & make men readie to sleepe.

Question,

Question. What is the reason that some flowers do open

with the funne rifing, and flour with the funne fetting ?

Answer. Cold doth close and shur, as hath been said, and the heat of the sunne doth open and inlarge. Some do compare the sunne vnto the soule in the bodie; and as the soule giueth life, and when it departeth death solloweth: so the sunne doth giue life and viuisicate all things, and the cold bringeth death, and withering, and decaying of all things.

Question. Why doth griefe canfe men to grove old and

erey?

Answer. Age is nothing els but a drines and want of humours in the bodie: griefe then caufing alteration, and alteration heat, and heat drines, age followeth immediately and graynes.

Queltion. Why are all gelded beafts weaker shen fach

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which are not gelded?

Answer. Bicause they have lesse heare, and by that meanes lesse force and strength.



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# MARCVS ANTONIVS ZIMARAS SANCTIPETRINAS PROBLEMES.

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Hy u is effected in the indgement of the most wife, the hardest thing of all to know a mans selfe?

poods assemble bear in the

Is it bicause nothing can be known, if his forme and perfection cannot be knowne? To know the forme and perfection of a mans selfe, as it see.

meth vnto the Philosopher, is a matter hard enough. And a man by the authoritie of Plato, either is nothing, or if he be any thing, is nothing else but his soule. Or is this bicause it cannot be done but by a reflected action? And to reflect and looke vnto himselse, is a token that we are separated from the slesh. For he who woulde know himselse, should be drawne from sensible affections, and how hard this is, no man is ignorant. Or is it bicause a man liveth by understanding? But the understanding of a man cannot conceive himselse, but after the understanding of the sences which is verie hard.

IL

Why was Socrates esteemed the wifest of all Greece, by the Oracle of Apollo, seeing that by the opinion of Aristotle, he was conversant and busied onely about mortalitie, and nothing about nature.

Whether is it bicause it is more expedient for the common commodie and vse of man to line well, then

# OF ANTONIVS ZIMARAS.

to contemplate? or bicause it seemeth to Plato, that was viually professed of him enery where, I know this one thing, that I know nothing.

111

Why do men especially consend and strine in shings of wis ? Is je bicaule they thinke, that other things which are called goods, are in the power of another? as the gifts of the body are natures, and externall and worldly goods are subject vnto the rule of fortune : whereof it commeth to passe, that every man can easily suffer himselfe to be ouercome in such things, as things not happening through his fault or occasion. But they think witto be in our owne power. Or is it bicause they think that the goods of the minde do excellall other goods, and therefore do thinke it is a thing most naturall to contend for that which is most excellent ? Or is it, bicaufe it is a common disease of all men, as it seemeth vnto a certaine wife man, that every man doth thinke himselfe more learned then he is , and therefore doth defire to performe that which he beleeueth, without fludie and labor.

#### TIII,

What is the cause that sew men take paines in attaining of sciences, seeing that all men by nature do desire to know?

Whether is it bicause that the gods have put vertue to be gotten with sweat and labor, as Hesiodus saith? or bicause the pleasures of the bodie do draw a mans mind from the searching out of the truth? It is requisite for him who desireth to live in mind, that he think & meditate on the earth of the bodie, as the divine Plass doth thinks. Or is it bicause the nature of man is forced to serve many waies, as it pleaseth Aristosle: where it falleth out, that when things necessarie do faile, the naturall desire is not brought into action? for nature of hir selficies not sufficient to contemplate.

GA

Why do men fay that Thilifophie is naked ?

Is it bicaufe truth is naked, & that there neederh no colour of words, when we handle a matter of truth? for it belongeth vnto Sophisters to dispute of tearms, when the fincere truth is fought. Or is it bicause they do not play the Philosophers well, which seeke philosophie for gaine and ambition, and not for hir felfe? Or is it bicause he should be void from all wordly affections, who desirethto endeuour himselfe in the studie of Philosophier for as Avillacle doth faie, The foule is made wife by rest and quiernes. And it were case for Philosophers to become rich if they would, as it appeareth by the example of Thales.

Why doe men defire to be had in memorie after their death? and sherfore some make pyramides, and stasues, and images, and diners other tokens of monuments which they build and leane behind shem?

Is it bicaufe all things, as it feemeth vnto Ariffole, do defire to participate of some perpetuitie and dinine being, as much as they can? And therefore if they cannot remaine in nature and being, yet they endeuour at the leaft to continue in opinion and conceit of men; or els hatheustome brought it in fo, to flirre vp fuch as come after, to the end they may not degenerate from their parchts ?

What is the cause why mens desires grow without measure, about fortunes goods ?

Is it bicaule naturall defires, as Senera faith, haue an end, and fuch defires which proceed of a falle opinion, have no where where to end? and in the rade, wo that

and to owner of the VIII. Why do Poets alwaies assigne and appealnt some wife manes

# OF ANTONIVS ZIMARAS.

be familiar with Princes? as Homer doth Nester with Aga. memnon: Euripides Tirefiam with Creon : Hefiodus Promethewith Impiter : and Maro Achates wish Aenees ?

Is it bicaufe that by the law of nature, as Tieso doth fay, wisedome and power should direct their actions to one end, and effect the fame thing, loue it, and feeke it ?

#### siley a maide an acces XIV

Why doth Homer, when he maketh mention of Embaffadors, valke alwaies of the embassie of a commander, in bare words?

Is it because it is the dutie of Embassadors to declare the bare will of the commander, and put his sentence in execution? and therfore it is certaine that he should adde nothing nor take away any thing. Or els isit bicause the commandement of him who doth rule, that is, of a wife man, is fer in good order, and is prefumed to be most perfect? And therefore there should be nothing changed, but his decrees and constitutions are to be judged absolute and perfect. and the replace to ferme, diving or see the

Why doth Aristotle vie exceeding brenitie in most hard

Whether is it, bicaufe it is the custome of wife men to loade their words with fentences ? or els to the ende that he would be obscure, to feare and keepe off rude wits from the reading of his works, as it feemeth to the expositors? Or whether is it bicause that in a hard matter, and in a matter of truth many words are suspected? bicause that truth doth confist in a few words, Or is it bicaufe that as it feemeth voto the wife man, in many words there is error often committed ?

Why do famous men in any science, when shey do erre in any user, erre more dangerensly shen shofe which are lesse faestimates.

Is it bicause that such, trusting vnto the skill of their owne wit, are drawen far from their senses, and therefore must needes be deceived? Anicen may serve for a proofe of this, who for all his fame in Philosophie, said, that a man might naturally be brought foorth of the earth. And that samous great Anerrois, who thought that a maide might conceave with childe in a bath, without knowledge of man.

#### OVT OF ARISTOTLE.

W Hy is man, who is indued with learning, the most unins

Whether is it bicause with his wit and conceit, he is much given to pleasures? and therefore he doth seeke out greatly and weigh what felicitie is, which no man can obtaine but with injurie.

#### XII.

Why doe men desire rather to seeme, than to bee and not seeme?

Is it bicause onely man is participate of honor? whereby it commeth to passe, that euerie man desireth to seeme good, and yet naturally fleeth labour, and yet we get no vertues but by labour. Or is it bicause the propertie of a Sophister is rather to seeme, than to be, and not seeme? But there are very sew which truly attaine vnto vertue.

#### XIII.

Why do some in their youth beget girles, and in their mid-

Whether is it bicause the seede waxeth cold in such as vie the act of carnall copulation too of: And therefore in their middle age, or when they growe old, not ving it so much, their seede is hotter, which is the begetter of males.

# OF ANTONIVS ZIMARAS.

#### XIIIL

Why have children and boyes pleasure in the all of venerie.

unfidering that they do not cast foorth any feede ?

de it as the Philosopher saith, bicause that there is a certaine tickling and itching in the letting forth of the spirit, or breath, as it is in such as are of age, by the calling out of seede.

XV.

Why have shey leffer pleasure which use shis all of copula-

Whether is it bicause that by often ving carnall copulation, the spirit and seede doth decrease and wax cold? And therefore the seede is not so itching nor so tickling, which is the cause of delight, as Philosophers affirme.

#### debron south a cont XVI.

Why doth immoderate carnall copulation more hurs, then

immoderate lessing of blood?

the late of their selection

Whether is it bicause the seede is fuller of spirit, and a nutriment better disposed and prepared for the nature of the bodie than the blood? for as it seemeth vnto Galen, the seede is the substantial cause of the parts of the bodie, and of it the bodie doth growe, increase, and is nourished. And as he who is a hungred, is hurt more by the taking away of bread than of flower, so the bodie is more weakened by the taking away of seede, than by the cuacuation of blood.

#### XVII.

What is the reason that such as have a very long yard, care-

Whether is it bicause the seed going a long distance, the spirit doth breathe out? and therefore is cold and unfit for generation.

Cornel of the MILAN Come of the formation

Why doe fuch as me corpulens cast foorth Usale feeds in the

est of copulation, and are of barrens

Is it bicause in such, the seede passeth into the noueishment of the bodie? and for the same reason corputent women haue but small store of flowers?

#### XIX.

Why are women apter to the att of ventrie in fammer time, and men in the winter?

Whether is it, as it seemeth vnto the Philosopher, bicause at that time their stones hang downward, and are
feebler than in the winter? seeing it is necessarie for
him who will vse carnalitie, to draw them vp. Or is it bicause hot natures do boile and chase in summer and
decay, and cold natures become liuely? for a man is
hot and drie, a woman cold and moist. And therefore in
ahat season the strength of men doth decay, and the
strength of women growe stronger and liuelier, through
ahe benefit of a contrarie qualitie. And for the same
cause, as Galen saith, some beasts of a cold nature do almost die in dens and holes, through the excessive colde
of the aire, and receive little nouriture at all, which reeive againe when heate commeth.

#### hax Xouish cartle of the parts

Why is man she proudeft of all lining creatures?

Whether is it by reason of his great and strange knowledge? for as the Philosopher saith, all sensible things consist in sence, intelligible in the understanding, what remaineth then which escapeth, his knowledge? Or is it bicause he seemeth to be the knot and sastening togither of God and the world? for he is in the middle betwixt both. Or is it bicause he hath rule over all other creatures, and all things seeme to bee brought unto his asbitrement? Or shall I answer, that the pride of man doth proceede of the want of knowing himselfe? for truly if he would remember that he is conceaued like unto duag & vrine, if he would marke how

he is brought naked into the world, if he would weight how he dorn leade his life in milerie and toyle, if hee would thinke deepely how he is bound to die, he would not be proud stall.

XXI.

Why dosh was effecially understanding shing, and do another ?

Is it bicause there is the same science of contrarie things? or because the dutie of the minde is to reach vnto many things, and the appetite tendeth vnto one thing onely? And a man for the most part doth love by vnderstanding and reason, and beasts are lead with appetite, anger, and pleasure.

### OVT OF ARISTOTLE.

7 Hy is the man she wifest of all lining creatures? Whether is it bicause he hath a very litle head. in respect of the proportion of his body, as it seemeth vnto the Philosopher in his problemes ? Oris it bicaufe he is of a most perfect nature, and therefore the habites of vertues are more excellent in him ? Or whether is it because the bloud of man is most subtile, and pure, and cleane? The bloud is the nouriture, and that the last nouriture, and therefore there is great difference whether it be cold or hot, thinne or thicke, troubled at cleere. Or is it by reason, that through his owne con flitution, he hath a most perfect sence of feeling, as experience doth thew in men? for because they have foft flesh, they are endued with a sharpe and quick and they whose flesh and skin is thicker and groffer, are dull and flow, And therefore the temperature of a ma feemeth most fir and apt for prudence and wifedon And that by reason that in a soft bodie and tender, the arft and motherly spirit of the soule is caselier infuse And

### THE PROBLEMES OF

and doth more willingly and speedily discourse; and contrariwife, the hardnes and thicknes doth ftop, and sherefore is a hinderance that the pure & cleere blood, whereof the spirits are engendred, be not carried from place to place : for vnto every man is given a certaine portion of spirit, to worke withall. XXII.

Why is a womans wit unapt in good things, and most promps

in naughtie things ? as Euripides faith in Medea ?

Whether is it bicause of a prination, which seemeth" to be coupled and joined with hir nature for as it doth appeere vnto a Philosopher, a woman is a man hurt: and the condition of a privation is, alwaies to go about hurr and intend mischiefe.

### XXIII

Why do men fay, that a womans first counsell should bee

chofen ?

Is it bicause as we see in things which want reason. their actions and motions are guided and directed to their proper ends by a superiour power? for I thinke that to bee most true which is faid, that there is a propidence which doth cast into an vnhonest man the defire of honestie, and in a poore man the defire of wealth, as farre as is sufficient. So the understanding of a woman, although they understande not the reafon of good and cuill, is sometime directed by an infallible trueth to take fuch things in hand : but the counsels which they go about, through their owne fearching, are to be left of, as weake, and fubicat vnto many

### XXIIII

Why do women defire rasher so go srim, and decke shewfelues

Is it bicause the nature of women is vnpersect? and shereupon they endeuor so supplie the want of nature with

with the benefit of art? for by nature that which is enill favoured and vnfeemely, doth couet and defire that which is faire and honest? or is it bicause that wanting the beautie of the minde, they are forced to studie how to trim and decke their bodies?

### XXV.

What is she cause shas a sall man is seldome wife ?

Is it bicause the largenes of his bodie doth proceede of excesse of heate, and abundance of humiditie? But wise men do thinke, that the persection, accomplishment and goodnes of our operations is persected by drines, which doth alwaies go on and increase, vntill it bring vs vnto our end. For the constitution of the bodie, from his first beginning did spring from the last humiditie, but the vehemencie and excesse of heate doth ouerthrow the judgement and quietnes of the minde.

#### XXVI.

Why is a multistude of princes or rulers naught, as Homer

Is it bicause that if the government should be turned into tyrannie, it is better to be under the yoke of one, than of many? Or bicause a multitude of rulers do seldome looke to the good of the Common-wealth? whereof it proceedeth, that if one do disagree, great hurt is like to hang over the comminaltie. It is easier for one man to be well given than many. In the government of many there wanteth not strife, debate, and envie. And therefore seeing that experience doth teach, that a kingdome will not receive two, it is most truly said of Aristotle, that a multitude of rulers is naught, and therefore let there be but one prince.

### XXVII.

Why have other beafts their harts in the middeft of their breaft, and man declining fomewhat towards the left fide?

It it bicause it should moderate the cold of that side?

### AATHE PROBLEMES TO

for as Ariffeele doth fay, man onely bath the left fide cold. Or is it as the Philitions do fay, bicaufe it shoulde give place vnto the liver, which is placed in the right fide?

### XXVIII.

Why doth a woman love that man exceeding well, who had bir maiden head?

Is it bleause that as the matter doth couet a forme or perfection, so doth a woman the male or is it by reason of shamefastnes? for as that divine Place faith, shamefastnes doth follow love. It is reason that she love and esteeme of him who loosed the bonds of hir credite and shame. Or is it bicause the beginning of great pleasure, doth bring a great alteration in the whole, bicause the powers of the minde are greatly delighted, and sticke and rest immoveably in the same? And therefore Hessodus giveth counsell to marry a maide.

### XXIX

Why are the nights in the full Moone formbat warme, feeing that according was the Mathematicians, the Moone is cold by nature?

Whether is it, bicause the opinion of the Peripatetikes is to be preferred, which say, that every light doth heate, in that respect that it is reslected?

### ar querties con XXX to list that the

Pring & in a but was a state of the state of

Is it because the aire is then very thinne, and bodies which are rarefied are very apt to receive heat or cold? as it is easily seene in the water: for water heated doth sooner freese then cold water, bicause it is rarefied with the heate.

### eries deel sol KXX in the

Why are our bodies former laws wish colds in the Antamne, thenin the flering !

Is it bleaufe the bodies which are accustomed voto cold, do in the spring time come to heare? and therfore the moouing or mutation is naturall and not fudden : but in Autumne they haften from heate ento colde not being accustomed, and without any mean. And nature doth not endure fudden changes, as Galen faith.

aluxxxII - artist fraquestado das

Why are men full of haire prone and aps was the luft of the

Whether is it bicause that in them, there is presumed to be great flore of excrements, and of feede, as it feemeth vnto the Philosopher?

XXXIII

What is the reason that men which have a small head, are

naturally angrie and seffie ?

Is it not bicause that when the head is little, and the braine by a consequence, the heat of the hart cannot be moderated with the cold of the braine as it ought to be? And anger doth proceed of the boyling of the bloud about the hart, through the defire of fome thing which doth grieue and make the hart forry. The want of the XXX IIII

Why dosh a man hold faft sogisher and close his fundament.

after he buth made water solly mount sollings 100 14

Whether is it bicaufe the aire doth run presently to fill that which is void and therfore the parts of the body are altred immediately with the coldnes of the aire, and do quake and tremble.

XXXV.

Why have fome men died shrough griefe and fadnes, and fo

through ion, and none for anger?

Is it bicause ioy doth coole the very inwarde gues? griefe and forrow doth suffocate and kill the inwarde parts, and coole the outward? anger doth heate both: whileft heat doth remaine, the life & nature remaineth,

bicanle

bicaufe the foule is faid to be life in naturall heat. XXXVI.

Why doth the voice chaunge in man and woman when they

begin to have feed?

Suspendent of the second

Is it bicause the hart is the beginning of the vaines & of the blood, as Ariftotle faith against the Phisitions? and thereupon it rifeth, that bicause the change of the excrement of feede is made in the highest part of the bodie, the voice as being about dooth make it manifelt. And thereupon it is that the voices of both man & woman do change when they begin to have feed.

XXXVII.

What is the reason that when a pot full of boyling liquor is

feeshing over, yes the bostome is cold?

Is it bicause the hot vapors ascend vpward?and therfore when the vppermost water is hot, the bottom in meane space is cold, by reason of the coldnes of the water adioming next vnto it.

XXXVIII

Wby do we finde she graine which we find in ants holes, and

gathered in the fummer time, gnawne on one end ? and it is

Is it bicaule they are directed of nature, to gnaw and consume that end where the vertue of seeding is, for feare it sprout againe feruly, their labors sprouting and growing, they should be deprined of their nouriture, belonging necessarily vato themselves.

XXXIX. And of participated Why do she mothers love their children more feruently then she fashers?

Is it bicause they take great paines with them? or bicause of the greater certaintie which they have of themsclues ? as Aristotle faith.

Why is not the father as welbeloued of the fonne, as the funne n of she fasher

Is it as wife men fay, bicause love doth not go backeward, but alwaies forward? bicause that love doth by nature serve such as live, to continue the kinde: wherof it commeth to passe, that our naturall desire neglecting things past, doth looke to things to come. Or is it as the Philosopher doth say, bicause the father hath somewhat of his in the sonne, the sonne nothing of his in the father?

#### XLI.

Why doe she children for she most pars, resemble rasher she mother then the father, seeing that (as Aristotle doth say) the matter dooth not concurre, actively to the begetting of the child?

Whether is it bicause all similitudes and likenes in mankinde and nature, are virtuallie contayned in the feede of the father ? Whereby it is that for the most part the sonne is like neither, but the grandfather or great grandfather, and sometime like none of the familie. Or is it bicause this doth proceede of a strong imagination? for such are woont woonderfully to love their wives. For as Anicen doth affirme, the bodie is sometime chaunged by affections, which are called Affectus animales : for they do print deepe impressions in naturall things, as it doth happen that the childe doth represent him, whose pourtrature and image was fore-conceaved in the acte of carnall copulation of the woman and of the man. But some of the vulgar fort, who knowe not the causes of things, are not contented with this doctrine: but the wife agree and confent vnto it. And therefore it commeth also to passe, that the bloud runneth and goeth to the externall parts in him, who casteth conceits in his minde of red things. And so som mens teeth are on edge, when they fee another cate fowre things; and when we behold another, difeafed & gricued

grieued in any part, the same part in vs doth languish and grieue. And often also the constitution of our body is changed through excessive feare.

XLIL MANAGEMENT

Why are affes more nimble, as the pronerbe is, when they are

young, shen in any other time & the waste day said the

Whether is it bicause that their nature and constitution being melancholy from the beginning, it is requisire there should be a temperature, with the recompence of contrary qualities. For melancholy by nature is cold and dry: but when they are young they are hot and moist. This we also seein melancholy children, the which in their childhood are of great wit, and before it be looked for, are of great wisdome so farre foorth that you may hope and promise any thing of them in time to come: whose wits neverthelesse in progresse of time do decay and sade. Bee therefore (saith the Greeke) naught, to the end that thou maist line, for the nature of such is most short.

### XLIII.4 noisempens gaes

Why be there no affes in Pontus and Scythia?

Is it bicause their nature is most impatient of cold, as the Philosopher doth say?

XLIII. and section spinis

Why are clergie men and women moft conesous?

Is it bicause the habite of vertue is bred of many actions? and therefore seeing that priests do want wise and children, they are forced no waies to spend their goods, and yet are accustomed to take and receive, & so become couctous. For as the Philosopher doth say: Such as every mans actions are, such doth he become. The nature of women, as we have often said, is unperfect, and therefore they thinke it impossible, sully to satisfie themselves. And therefore they gather together, and keepe, that by that meanes they may helpe their

their need, and by industrie and arte they couet to get, that which nature doth not give them. And for the same reason, I suppose old men give themselves to co-vetousnes: for wanting and being destitute of helpes by age and nature, they gape after the goods of fortune, that with them they may resist and oppose themselves against all wants.

VIX beginning, wirrequi-

Why do wounds greene leffe in war, shen out of war !

Is it bicause the powers of the soule bende another way? for as the Philosopher doth say, if our minde be strongly fixed upon other matters, we doe not see those things which are before our eies. Or whether is it by reason of anger, the which as wise men doe say, doth heate the internal and external parts? And as Aristotle doth affirme, with heate the soule doth worke all things. And therefore it happeneth, that the angry man doth growe colde but slowly after his wound, and therefore also he doth lesse grieue and late.

XLVL

Why do we woonder as the eclipfe of the Sun and the Moone, and not at all at the generation of plants and beafts by feede?

Whether is it bicause our admiration ceaseth in things which are vsuall, and our minde neglecteth to search out the truth in such things? But that which hapnesh seldome, doth stir vs vp to woonder, and induceth the vnderstanding to search out the causes of it.

XLVII.

Why dosh she head ach, and dulnes of she memorie, and an enill disposition of the imagination follows the long desayning of the seed ?

Whether is it bicause it doth hinder and make heavy the braine by excesse of seede? or else bicause the seede long kept, getteth some venemous qualitie, and therefore the sume and vapor of it doth hurt the head?

H 3

XLVIII

### XLVIII.

Why do Priests and Mankes feare and abhorre death more

shen any men?

Is it bicause they are by nature cold and melancholy? or bicause they perceive themselves to perish veterlie? for when they are out of this world, they neither continue in their owne nature, nor in posteritie.

XLIX.

Why if trees fall their leaves, and beafts their haire and feathers, they receive them agains? and if a man become balde, his baire commeth no more?

Whether is it bicause the times of the yeere do bring that change of bodies so, that in the first change there followeth an interchangable course one after another? and beafts receive agains their feathers and hair, and trees their leaves: but baldnes commeth vnto man through age, but nature giveth no comming agains to age.

Why doth a fummer end all difeafes ?

If force and nature bestrong, it shall finde an ayre most fit for resolution, and digestion, and expulsion of superfluities: if weake and overthrowne, the heare doth overthrowe it more: it doth loose weake bodies, and therefore there commeth nothing vnto the sicke bodie but death.

LI.

Why, if a man do put his hands into the water in the summer, he w colder when the water is mooned, then when it standeth still?

Whether is it bicause the parts of the water which touch his hands, be hot by the heate of his hands? for every agent which doth communicate with the patient, in the thing whereon it worketh, in dooing doth suffer again, and the water being mooued, it is necessary that the

the parts of it which are rarefied be scattered abroad, and others more cold succeed them.

LIL

Why do some which have an enill complexion and constitution of body live longer, then some others which are of a sanguine and better nature?

Whether is it through his bad gouernment and order? or bicause there was some hidden cause in those dispositions: for as Auerrois saith, the number of the elements is infinite in the works of nature, the which none besides the author of nature doth understand.

mises and to tall III.

What is the cause, as the Phissions do say, that the sufficeation of the matrix, which happenesh unto women through strife and contention, is more dangerous, then the detaining of their flowers?

Whether is it, bicause that how much the more an excrement is perfect, as long as it doth continue in his naturall disposition, by so much the more it is worser, when it is remooued from that, and drawne to a contrary qualitie? As it is seene in vineger, the which is sharpest which is made of best wine. And so it hapneth, that the more men loue the one the other, the more they hate, when they fall at variance and discord.

LIIII.

Why dosh the land which standesh fill, seeme to moone vnto such as faile on the sea?

Is it bicause the instrument of the sence of seeing is accidentally mooued, when the ship is mooued? whereby the likenesses and similirudes of things perceived,

are received with the mooning.

E

C

Agendada LV.

Why do we lone our fight above other fences ?

Whether is ir, as Ariffoole doth faie, bicause it doth thew vs the differences of things? or bicause his know-

H4

ledge

### EXTRE PROBLEMES

Jedge is more drawne from materiall substance for is it bicause the divine force of love is placed in that sence, as Plate saith.

#### LVI. minustinowand at a

Why do we note judge a staffe to be broken in the water, feeing

is dos h so appeer in the sence of the sight?

Whether is it bicause we perceive by the sence of seeling & touching, that the sight doth errefor is it bicause we do not judge with the same power as we doe imagine with. And an argument of this is, bicause the sun doth seeme to be but a foote round. And by a tricke and mooning of the singers, one thing doth seeme two, and yet we do not yeeld that they be two.

#### LVII.

Why do we put our hand oner our eies when we will fee any

shing a far off?

Ariffole doth fay, that those which have their eies standing out, cannot see farre; and contrarie, such as have them hollow in their head, can see farre, because the mooning of the sight is not scattered.

### Sylection to a select LIVIII account a realized W.

Why can some see she object before sheir eies far off, better shen if it be neever sheir eies ?

Is it because things which may be seene cannot be seene, but by the meane of the bright aire? and weake eies do want more plentie of light, then strong eies. But the object being put far off from the sence of the sight, in the distance from the thing seene doth require a greater light, then good eies need: and the surther the object is, the more light there is in the distance betwixt the object and the sight. On else bicause the motion which proceedeth from an object farre distant vnto a weake sence, is weake, which the sence can well endure? But the motio which is hard by is strong, which a weak cie

eie cannot suffer: which is easily seene in old men, the which by reason of their weaknes do see a farre off, and can reade small letters in the light of the sunne, the which notwithstanding, can not hard by them reade, nor see at the light of a candle, or the Moone.

LIX.

Why can some fee things hard by them, and cannot fee things

fursher off ?

Is it not through the weakness of their fight? for in fuch the power of seeing is very weake, and not vnited togither, and therfore they had neede of a strong mooding: as it is also in such as have their cies standing out, which cannot see fatre.

LX.

Why do fuch as would shoote aright, winche with one eie?

Is it bicause the power of the fight is then more and better vnited, and therefore is better able to performe his actions?

### LXI.

Why be fuch as have beene long in the darke, if on a sudden

they come into a great light, halfe blind ?

Whether is it bicause nature cannot endure those sudden mutations? or else bicause the spirit of their sight is small and weake, and therefore are glad of their like, and is dissolved when they come into the light? Or else is it, bicause of the desire of the light, which they wanted a long time, they do behold the light too earnestly? And so their sight is weakened, as it hapneth in such as have a long time endured samine, and therfore eating greedily, do take more then they can digest, and so by that meanes perish.

LXII.

Why do such as see weakely, for the most part, write small let ters ? it is maruell that such at are purblinde, or have a weake sight, shoulde doe that which dooth belong wate such

as have a good fight?

Is it bicause that things hard by do seeme great, and such are woont to write with their eie hard by their paper? Or is it bicause they do write almost winking? For if they should write with the eies wide open, their sight being dispersed and scattered abroad, it woulde waxe dimme. And therefore wincking they see more quicker; and therefore seeing that through their wincking, their passage of seeing is narrowe, they must of necessitie make a small letter.

### LXIII. but both got real tro.

What is she reason that if a man will see farre in the night, be shall do it better if he bowe his head neere wato the grounde,

then if he fland upright?

Is it bicause the obscure vapors which made the aire darke, are thicker about in the aire, then they are neere vnto the earth, and thereupon do more hinder the fight farre off in the aire, then neere vnto the ground? or is it bicause the light of the stars being dispersed through the aire, causeth a reflection neere vnto the earth, although weakely, and so by that meanes doth somewhat the more make light vpon the ouermost part of the earth?

### LXIIII.

What is the cause, that if a man hath committed any enill fact, he cannot dissemble it in countenance, and in his eies? and therfore the Poet doth say; O how hard it is not to be wray a fault with thy countenance?

Is it bicause the cie is the messenger of the hart, as a glasse of the minde wherein all things do shine; or is it bicause it is the weakest part of the bodie, and the sullest of passages; and therefore all alteration which beginneth in the hart, (which as the Peripatetikes do say, is the beginning of all sceling and cogitation) goeth directly vnto the cies.

LXV.

LXV.

Why cannot such as gape, or put foorth, or receive aire, hears

Whether is it bicause the end of the instrument of hearing, is ended at some spirituall part i whereby it commeth to passe, that it is shaken also and moued, togither with that spirituall or aerious instrument, as oft as it doth moue that aire: for it is moued when it doth moue. Or is it bicause much breath or aire doth outwardly enter in at the eares, whilest we gape, and therefore mouing and sense cannot bee perceived? for it doth thrust at the eare. The noise is the aire, or some affection of the aire: and therefore when the aire within the eare is weakened, and the aire outwardly doth enter in, of necessitie the one dooth hinder the other: and that which is within doth beate out and expell that which would come in.

#### LXVI.

Why can noshing bee the cause of his owne generation and corruption?

Is it bicause the mouer must be before the thing moued, and the ingenderer before the thing ingendred, and that it is impossible to be before himselfe?

### LXVII.

Why are womens bodies loofer and fofter then mens bodies, & leffer, and why do they want baire ?

Is it by reason of their monethly termes? for with them the superfluities go away, whereof haire should grow, and whereof the sless should be filled, and therefore they are lesser, and therefore also their vaines are more hidden, than mens vaines.

### LXVIII.

What is the reason that when we thinke voon any horrible thing we are striken into a feare?

Is it bicause the conceir, thinking and understanding

of things, have force and vertue? for as Plass doth fay, the reasons of things, have some affinitie with the things themselves. For the image and representation of cold and heat, is such as the nature of the things are, as the Philosopher hath said. Or is it bicause that when we comprehend any dreadfull matter, the blood nunneth to the internall parts, and thereof the externall parts are cold, and shaken with feare.

### LXIX. The state of the same

Why cannot a companie or multisude of women be led under

a captaine without sumalt? I have a haid as also all here

Is it bicause they are inconstant by nature? And for the same reason the Philosopher woulde appoint no shepheard over goates, bicause they are instable and vnconstant by nature. Or is it bicause a woman is more prating, woorser toonged, and more backbiting? also complaining, despairing, and lesse wise, and more lying than a man.

### LXX

Why dosh a radish roose helpe digestion, and yes himselfe re-

maineth undigefted?

Whether is it bicause his substance doth consist of divers parts? for there is some thin parts in him which is fit to digest meates, the which being dissolved, there doth remaine some thicke and close substance in him, which the heate cannot digest.

### LXXL

Why do fuch as cleave wood, cleave it enfier in length, then

Whether is it bicause that in wood there is a graine, if it be cut at length, as it is to follow the haire in cloth, which doth go on in length: whereby in the very cutting, one part draweth another fast by it.

### LXXII.

What is the reason if you strike a speare on the ende, the

founde commeth sooner to one which standeth at the other ende, then unto one who standeth neerer to him which striketh?

Whether is it bicause that as it hath been said, there is a certaine long graine in wood directly forward filled with aire, but crosse or on side there is none. And therefore a beame or a speare strooken on one end, the aire which is hidden receiveth a sounde in the foresaide graine, which serveth for passage for the aire. And therefore seeing the sound cannot go easily out, it is carried who the eare of him who is opposite who him, and those passages do not go from side to side, and therfore the sound cannot be so distinctly heard.

#### LXXIII.

Set Sidelinerine

Why be there not famous men in enerie facultie in our age?

Is it bicause the nature of man decaieth in our age?

and as Solinus saith, succession being corrupted, the progenie of our age is woorse by birth? Or is it bicause such are not esteemed of Princes? for take away the reward due vnto vertue, and no man will imbrace it. Or is it so ordained by nature, that men do alwaies complaine of the present time?

### distribution of the LXXIII and the same of the same of

Why are flatterers in great credite with Princes?

Is it, as Plutarke faith by the authoritie of Plato, bicause they love themselves? Too much immoderate love of themselves, causeth them to admit flatterers, and to give them credit. Or whether is it, as I thinke, bicause they want the light of reason? For among birds, some through the corruption of their nature, delight in stinking meates, and whom the day doth blinde, and the night doth lighten.

### LXXV. a transport appropriate

Why have Philosophers for the most part in these daiel enill

Is it bicause they are not esteemed of Princes? or is it bicause that for philosophie it selfe they are accused of crimes, and thinke therefore they receive such rewards, and therefore they are compelled to for sake vertue, and she to vice? Or esse deceived through error, they thinke they have challenged all the garments of philosophie, when they have snatched vnto themselves some of hir rags. And therefore they are by vs rather called Sophisters than Philosophers; for certainly a Philosopher should be of a stout courage in all respects, and in all fortune; for they reason badly that therefore they should give themselves vnto Philosophie, bicause they would be honored of Princes. And their desire is not ruled by nature, but by error, and are thrust forward with the straeme of salse credulitie.

### LXXVI

Why do such as are angrie waxe pale in the beginning, and

Is it through the defire of revenge for that which grieueth, that the heate and blood are called vnto the hart, and therefore of necessitie the externall parts are pale? when they have determined to put that in execution which they defire, the heate and blood do run vnto the outward parts, and then they are greatly to be feared and to be taken heede of.

### LXXVII

Why do Serpents want a-yard and stones?

Is it bicaute they want thighes, and therfore do want a yard, and they want stones, bicause of the length of their bodie.

### LXXVIII

Why can Serpents surne sheir heads backward, and she reft of sheir bodie stand still?

Whether is it bicause that like vnto those beastes which are called Inseste, they are made of a winding compo-

composition, and have their ioints flexible and made of gristles. And this is the reason in serpents, and also bicause they may avoid those things which hurt them: for having no seete, and being long of bodie, they cannot easily turne them, whilest they bow against those things which are behinde them. It were to no purpose to lift up their head, if they could not exercise anger.

LXXIX.

Why is the Chamelean changed into divers colours?

Whether is it, as it seemeth vnto the Philosopher, bicause that he is the senderest of all sooted beasts ingendred of egs, and is starke for want of blood? The cause is to be referred vnto the qualitie of the minde: through over much coldnes he is of so many colours: for it is the propertie of seare to binde fast, through want of blood and heate.

### LXXX.

Why are the thighes and calfe of the legs of men fleshie see-

ing the thighes of other beafts are not fo?

Is it bicaule man onely goeth vpright, and therefore have them so to sustaine the vpper parts: and therefore nature hath given the lower parts corpulencie, and hath taken it away from the vpper: and therefore she hath made the buttocks, the thighes, and calse of the legs sleshie.

LXXXI.

Why do very fat beafts maxe old quickely, and foone die?

Is it bicause they have but a little blood, seeing that much of it is drunken up with the fat? And those which have but small store of blood are aptest to die: for death is a want of blood.

### LXXXII.

Why doth man onely go vpright?

Is it bicause he is most hot of nature? or is it bicause his substance is dinine? The part of dinine things is to understand

understand and be wife: which could not easily be, if a man had a great massive bodie: for heavines doth make the understanding and the sense flow.

LXXXIII

Why is the flesh neerest the bone spectest?

Whether is it bicause it receiveth temperature through the equalitie of the contrarie? for the nature of slesh is hot and moist, and the nature of the bone is cold and drie. And therefore of contrarie extremes there must needes be a meane.

cause that have you HIIIXXXIII forced beatle inc

Why is it forbidden to talke whilest we case ?

Whether is it bicause, that before the wizard, by the which we eate and drink, the arterie is put, by the which aire and breath goeth vnto the lungs, and this arterie is molested with meare or drinke entring vnto it. Yet nature hath prouided for this a little flap, which doth couer the arterie, the which is opened when we speake. And therefore meate can easily get into it, whereof followeth choking and coughes. Or whether is it bicause speaking doth hinder the chewing of the meate, and therefore the meate is not well digested?

off prolamide ton LXXXV

Why doth wine mingled with water, after a fort make a man

foonest drunke ?

Whether is it bicause the water doth cause the wine to run hither and thither, and penetrate the more. And that is the reason that Must, as Anicen doth say, doth sooner make a man drunke than wine, bicause that the water mixed withit, doth make it penetrate.

LXXXVI.

Why are Noblemen, and fuch as are placed in high dignisies troubled with the gowte?

Is it bicause they cram in divers forts of meates even to the file And the Philitions do affirme, that there

is nothing woorfer then at one time to take divers forts of meats, & then be a long time in eating and drinking of them: for the first is halfe digested before the other come: and therefore such as remaine not long vndigested, breede rawe and naughtie humours, which runne vnto the ioints. Or whether is it by reason of overmuch pure wine, and too much idlenes, and exercises done out of due season? Or is it through the overmuch vse of lethery, which wasteth & killeth digestion? These things are greatly to be seared, as Plotinus saith, least we become stockes or brute beasts: for like vnto brute beasts they are given to gluttonie and the bellie.

### LXXXVII.

Why are they taken with fudden death, which are loaden with

ouer much fat, and effecially when shey be young ?

Whether is it bicause their vaines be strait, & therefore are stopped with the fat, that the spirits cannot
have free course? whereupon the heate which is bred
within them doth kill them, bicause they cannot receive the cooling of the aire. And therefore as the Physitions do say, they should greatly feare least their
vaines breake, or their naturall heate be suffocated.

LXXXVIII.

Why can such be hardly les blood which are very fas, and shap

with danger ?

Whether is it bicause they have very slender vaines, and they hidden for else bicause al far is without blood, as it seemeth vnto the Philosopher,

LXXXIX.

Why, as Aristotle dosh assimme, are the sensible powers in the hart, and yet if the hinder part of the braine be hart, the memory payeth for it: if the forepart, the imagination: if the middle, the cogitative power?

Whether is it bicause the braine is appointed by na-

in

in divers of his parts he serveth the powers and instruments in the hart: for everie action of the soule doth not proceede from one measure of heate.

XC.

Why dosh is happen out for the most part, that children which are not lawfully borne, are wittier and subtiler, and liker unto

the parents, then others ?

Whether is it, bicause the powers of the minde of the parents are very vehemently bent in the act of carnall copulation? such do loue exceedingly, and therefore seeing that their affections be not distracted, the childe by nature shall not varie from them. And that is most true, when they go togither with tranquilitie of minde for if it be with seare or gricse, the children be valide.

### XCI.

What is the reason, seeing that death is by nature, yet it is

Whether is it bicause the nature of man, as the Philosopher saith, hath purchased the meane, not onelie of living, but also of living well? for mankinde onely, is partaker of supernatural things, other beasts have regard voto that onely which they see, wherein, as Plinie doth saie, the goodnes of nature doth suffice, which is to be preferred before all other things: and therefore they thinke not of glory, wealth, ambition, nor of death. Wherefore seeing that a man is deprived of a more noble life when he dieth, death is voto him above all other most grievous. Or is it bicause other beasts regard onely things present, and man onely foreseeth things to come.

### XCIL

Why if death come by nature, is is judged the last of all terri-

Whether is it, as it seemeth vnto the Philosopher,

bicause it is the last, and that nothing else doth seeme good or bad vnto mortall men? Or is it bicause we inneigh against nature, who is the beginning of necessity; and not the nature of the forme, or of the end, from which that which is good is derived, which all things do defire? or peraduenture doth death feeme the most terribleft of all things, bicaufe they ment fo to live, that they thought to be immortall? or doth it frike a feare onely into them which lived a naughtie life? And voto fuch as lived a vertuous life, death is not grievous, as the Poet faith. Death is the end of a prison obseure. Or be they grieved bicause they are scaled on with a violene and vntimely death? for such as die when they come vnto old age, do for the most part die without feare and griefe. For truly nature is, as a candle readie to be put out. And as Plato doth fay: of al fores of death, that which by nature doth come is most light, which hapneth rather with pleasure then dolour.

XCIII.

Why seeing that man is the end of nature, is he of so short a life, in respect of other lining things, as Poets doe complaine, by

she example of she crow ?.

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Whether is it bicause that those our makers consulting of our kinde, the perfection of fraile things, is not measured at all by continuance of time? as the Philosopher saith: It is farrebetter to be very ioyfull a short space, then a long time meanely or lightly glad. Or whether is it bicause that nature of things possible, doth alwaies make that which is best? And it could not be that the constitution of mans body could be convenient and sit for long continuance and the operations of the soule. For by the authoritie of the wise, there is required another temperature sirst for life, and another for the works of life. Whether shoulde they make us of a long life and the worse, or of a shorter

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and the better? It seemeth good vnto them, saith Plate, to preferre a short life and a good, before a long life and a bad.

XCIIII.

Why did nature bring foorth man naked, and without de-

fence ?

Is it bicause nature doth make nothing without reafon or in vaine? feeing that a man is most wife, he can vie many instruments to helpe himselfe withall. The hand is not one instrument but many. And therefore they thinke amiffe, as the Philosopher affirmeth, which fay that a man is the nobleft of all creatures, and yet in woorfer cafe then all, bicause he is naked and weaponles: And other beafts keepe their common helpe, and cannot change it by any meanes, but man can change his weapons at his pleasure: for the hand is a hoofe, & horne, and speare, and sworde, and every other kinde of weapon. Seeing then that a man is indued with vnderstanding, and hath a hand given him by nature, he cannot complaine of his nakednesse and condition. Whether was the excellency of the substance of which mankinde was made, fit and convenient for hornes, and fuch like?

XCV.

Why is wine put into a vessell of water mingled with falpe.

ter, very cold ?

Bicause saltpeter is presently assucolde, though it have power to be hot, and the water mingled with it is colder then the wine. Now a thing which is more colde, doth make a thing lesse cold, more cold then it was: & therefore the wine put into such a vessell is cooled the better. I have sometime answered, that it proceedeth of the Antiperistasis, that is, by a repulsion whereby heate or colde is made strong, and every contrarie by his contrarie: but saltpeter is not hot assu, but in perensia.

And

And therefore having power onely to be hor, and is not hot indeed, it cannot worke by that contrarietie : for it is all woold, as the feeling can judge.

XCVI.

Why bath philosophie seemed a woonderfull and a dinine

shing vnto fome ?

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Whether is it, bicause that as a medicine is the perfection of the bodie, so philosophie is the perfection of the foule, as Themistius faith ? Or is it bicause the studie of Philosophie doth increase and further vs in our dutie towards God, and make our zeale more feruent ? fo those things being perfectly knowne which God hathr done, he turneth al mens harts and minds to praife and admire him. This admiration, charitie, faith, and hope doth follow. Or whether is it bicause it doth breed great pleasures and delights, through the certaintie of it and fincerenes? or bicause it doth make vs like vnto Goda

### XCVII.

Why do tyrants hate learned men?

Is it by reason of the vnlikenes in maners? for so it hath alwaies been that wisdome hath been injured by euill maners. Or do they feare least they should breede fedition and tumults in their cities with their doctrine and authoritie? or bicaule they do taxe and reprehend their conditions? for as Plato doth fay, Poets have great force and skill, either to praise or dispraise, and every man who hath a care of his fame, shoulde take heede how he offend a Poet.

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### ALEXANDER A-PHRODISEVS PRO-BLEMES.

I



Hy did Homer call men Poliocrotaphus, of the hoarenesse of the temples?

Bicause that for the most part there gray haires begin, bicause the forepart of the head hath more moisture and sicume in it, than the hinder part.

11

Why is onely the forepart of the head bald?

Bicause it is loose and soft. And therfore seeing that the haire doth want nourishment, by reason of naturall drines, it doth easily fall in those parts; it doth not stick as it doth behind, where the head is drier and thicker-

III. at your apostinger sing

Baldnes proceederh of drines; and therefore such as have curled haire be soonest bald, by reason of the drines of their head; and are grate haired verie late, by reason of the drines which consumeth the superfluities of sleume. They are watchfull aboue others, bicause sleepe commeth of humiditie. Children do shew this bicause they are both moist and sleepie, and full of excrements. Such as have softer haire, as such be which have a moist head, are of a contrarse disposition; for they

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they are verie seldome or neuer bald. And sometime baldnes happeneth by some defect of the kinde, or stocke, as the gowt, and some other diseases. Such are sooner bald, and are sleepy, and have much superfluitie. The hoare haires be whitest, bicause they follow the colour of sleume, from whence they proceede. They be sometimes almost yellowish, when the sleume is mingled with burnt choler.

#### IIII.

Why are old men full of excrements, and watchfull?

They are full of excrements, bicause they are colde and weake by nature, and therefore digest badly, and so gather many excrements by the pores and open passages of the bodie. And seeing they be drie, they are also waking and watchfull, and also bicause their bodies be hard & stiffe. And children notwithstanding the interlacing of the pores, and soundness of their bodies, are moist.

#### V

Why have children which are moist by nasure, and full of ex-

Bicaufe they are moist and hor, and fleume is moist and colde, and haue the forepart of the head as it were fleshy and thinne, wherby superfluities are voided: and that with age doth grow hard, and bonie and thicke: & therefore nature doth afterward give it seames, by which superfluous vapors should breath out and cuaporate.

#### VI

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Why doe women and gelded men quickely growe hours and

Women bicause they are cold by nature, and have small exercise, do gather many superfluities, and especially then when their flowers cease. And gelded men bicause they yeelde no seede, but do yeeld superfluitie which

which should breed seede, the which with the bloud doth spred it selfe over all the bodie, and that hath the nature of sleume.

#### VIL

But why do they want haire ?

Women bicause they be cold, and have thicke passages in their bodies: for colde doth thicken, and therefore there is no way which way haire should passe. Gelded men bicause they are moist, and about measure full of excrements, and therefore in such moist places as no hearbes can grow, so neither in dry and stony, which baldnes doth follow.

### VIII

Why are gelded men for the most part crooked legged?

By reason of that superfluous humiditie, they have foft and wer bodies, and therefore weake, and therfore feeing the thighes cannot beare the burthen of all the body, they are wreathed and crooked, as a bulrush doth bend if a weight be put on it : for that which is hard and drie is ftrong, and can relift: and that which is foft and moift, is weake and cannot refift. This is declared by wood, and offers, and also men. And with baths and drinke men are much weakned; and with a moderate diet are dried, and become stronger vnto any action. Whereof it arifeth, that gelded men are after a fort women, and weake, and given to wine, and drunkennes, and full of fleume. For being colde, they couet to induce the contrarie qualitie, and wine by nature is hot. The Æthiopians being of a drier nature, have curled haire, and are leane, and ftrong to worke.

### IX

But why have they a Sharpe Shrill voice?

Againe, abundance of humidity filling up the artery, doth make it straite, and therefore the breath going by a narrowe passage, doth cause a sharpenes in the voice.

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voice. It is plaine that they abound in humiditie, bicause they be light, and their paps grow great like vnto women, and haue swelling eie lids, and haue soft white haire.

X

Why do some gelded men after a fort cones women , and doe

Somesime love the act of venerie ?

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Bicause some are but unperfect gelded men, and som have a hot liver, and have large vessels and conduits of seede. And therefore they imagine the vse of carnall copulation: they cannot performe that which they defire, and their privities want livelinesse. For that spirit which doth pusse them vp, doth alwaies faile, and is weake: that spirit rising of the seede, through the passages of the seede, is carried from those patts which are about the loines. But in children those conduits of seed are closed vp.

XL

Why seeing there be three simple uniforme humors, yet they

do not breed three simple difeafes, but more?

There are double in everie one, continuall, or whole and broken. For the difference of diseases do not proceede onely of the humors, but also of the places. A hot, thin, and sharpe humour doth breede a sharpe, and a short, and a hot sever: a cold and a thick humor, a long and a dull one. So of wood, that which is hot and drie, as baies, olive trees, cause a great slame, and are quickly burned: greene wet wood make a small smokie sire, and are long a burning.

Againe, if the place be large & spacious, it doth sooner, and that greatly inflame the humour, bicause that when it is heaped vp togither, then at once being full rotten it is put on fire. But if the place be narrow and small, seeing it cannot containe all the humour, but by peecemeale, and therefore cannot ripen all togither,

it will dirre vp a small feuer, but such a one as shall burne long. Put then the nature of the humour vnto the place, and fo shalt thou finde all the differences of sques, which tife of the corruption of the humours. If yellow choler doe putrifie in great receptacles, as the vaines and arteries, feeing it is hot, doth kindle a most fharpe, hor, and short ague, which is called a burning, or heat. But if cold fleum do putrifie in the fmall vaines and arreries which are about the flesh, it dooth cause a long and a languishing ague, which they call a Cotidian. But if yellow choler do corrupt in small receptacles, it doth cause a small and a short ague, but yet somtime longer than a heate, which we call a Tertian or sharpe egue. But if fleume do putrifie in great places, it will cause a shorter ague than a Cotidian. And likewise blacke choler, if it putrifie in great vaines, bicaufe it is burned almost all at once, causeth a short ague by fourthes : if in small, it breedeth a longer quartaine: for there doe concurre a cold and a thicke humour not fit to alteration, and a narrow place, which will not fuffer all the melancholie and anger to be confumed

### XII

Why doe some when they are ashamed sweate under the armepits ? COST CONTRACTOR STORY

Bicause the pores are thin in that place, nature, when any thing is woorthie of reverence and honour, doth flee with the blood into the vaines and arteries, and they being full do diftill. As it doth happen to fuch as are merrie, bicause their bodie is made thin, and especially the armepits. I amount who are rather but, and trains appear on the XIII bags because it at another

Why do fuch as are afeard waxe pale?

Bicaufe our nature, and that power which hath a care of our bodie, will fuffer nothing done externally vnto

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vs. And as we do run within doores to keepe our felues from danger, so nature looking vnto hir safetie, conuaieth hir selfe into the bodie as much as she can, and carrieth the blood with hir, whom she hath for hir nourshment and wagon, and that blood also which is best: and that is the blood which doth die our skin with a red purple colour.

#### XIIIL

But why do they tremble alfo?

Bicause that virus animalis, that is, certaine spirits which rise about the hart, with the consent of nature doe for sake the sinewes, which before they kept: and it bee they which keepe the bodie from trembling a whereupon it riseth, that such are loose in the bellie, and vnawares doe make water. For those muscles and sinewes which doe stop the course of excrements, being become weake then, give leave for superstuities to passe.

#### XV.

Why do such as are ashamed waxe red?

Bicause that nature of hit selfe, as it were with a certaine conscience, like vnto a noble virgin, reuerencing that which is woorthie of honour, moderately doth draw hir selfe into the secretest parts of the bodie. The blood is moued with hir, and powred abroad, and therefore the skin is died with the colour of blood. Others say that the blood is cast over them by nature, like vnto a vaile, as we as it were admonished by nature, do put our hand before our face.

### famo cante they and the XX crements and vitte tin

Why are some dead with feare?

Bicause that the naturall power fleeing about meafure, and retiring it selfe with the blood into the inward parts of the body, doth choke and put out that naturall liuely blood which is bred necre the hart, and therfore doth

doth bring death. By the same reason, when much oile is powred on a sudden into the slame of a lampe, it doth put out the slame. The blood which is in the hart is copared vnto the slame of the candle or lampe. Some for the same cause have died with griese: as fire coursed with a couer is put out, so the inward motion of the naturall heate is resolved.

### XVII.

Why are fome overcome and dismaied with drunkennes?

Bicause that abundance of wine doth suffocate and choke with his heate our naturall and lively vertue. And it happeneth chiefly vnto such whose naturall heate is weake and small. That which is strong and much can resist, and in space of time can overcome and digest the abundance, as a great slame can endure much oile to be powred on it.

#### XVIII

Why do old men Shake and sremble 3

Bicause that the sinewes of our natural vertues and forces, and the muscles of the parts of the bodie, when they receive not sufficient motive vertue, do not endeuour to beare the burthen of the bodie. The shaking is, bicause the weight of the bodie draweth some part of the bodie downeward, and another power which is called Animalia, vpward: when this is done without intermission, and one after another, it causeth a quaking: then commeth in bowing and stowping to the ground, and so in steede of a rafter to uphold the building, they wie the helpe of a staffe: and for the same cause they auoid their excrements and wrine on a sudden.

### XIX we for in about of

Why do not pepper and mustard feed heat the bellie, if they be swallowed whole, but if they be broken they do?

Bicause that those things which have their qualities

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in power onely, and not in action, want some externall helpe to bring their vertue and power into action. And therefore being brused and made small, and entring into the passages of the bodie, do worke his effect through their inherent heate. And the like is of other qualities. There be some things which have their qualities in action, as the water, risan, and milke, are to be drunke presently: they are moist and cold, nor want no other externall helpe to coole and moisten, but do worke immediately. Likewise the salt and the earth, both virtually and presently and in sight are drie. Line seede and bread are drie in imagination and in sight, but moist in vertue and act. The sea also and brine and pickle, and Aqua vir.e, are moist in imagination and in sight, but are drie in vertue and actu, action.

#### XX.

Why doe some see nothing in the night, and see in the day? Bicause they have a thicke spirit of seeing, and which cannot pearce the aire, vnto the thing which is feene: and in the night it groweth more thicke, bicause it is made more cold with the absence of the sunne. Or else as others do fay, bicause that in the day time it is made fine and attenuated with the pure and hot aire, and is thickened in the night. The contrarie vnto this doth happen in a Car, and an Owle, they fee nothing in the day, and see very well in the night: for they have a very cleere and thin fight, the which when it doth fomewhat thicken in the night time, is most fit to receive his obiea: in the day time and in a cleere light, being exceedingly attenuated and made thin, is resolved and scattered. Whereupon Lions which are almost of the like qualitie, cannot go in the funne, and if they fee fire in the day time they flee from it. A man may fee the ball of their eie very bright, and they have the moift of their cies very cleere.

Why

XXI.

Why dosh a sudden vehemens toye somesime dismay a man,

and afton fb bim?

Bicaute that when the vitall vertue, and inward naturall heate is immoderately carried to the outwarde parts, it is cast out & resolved: and therefore such sweat and grow red, bicause the blood is present. The naturall heate, and sire, both by reason of his heate, and also bicause it is out of his place, move vpward, and then for desire of food and nouriture downe againe. And when one of these mooning do perish and faile, the man perisheth and faileth also.

XXII.

Why do such as are in griefe, and in love, and in anger, figh

pery oft?

Bicause that the minde of such as are greeued, is turned vnto the cause of gricfe and sorrow, and the minde of fuch as couet, to that which they doe couet, and the minde of the angrie, ynto that which caufeth the anger. The minde then being intentiue youn that whither thee moueth, doth after a fort neglect and forget to give motive vertue and power vnto the muscles of the breast, Therefore the hart not receiving aire by opening of the breaft, and by a consequent neither blowing nor cooling, nor yet cafting foorth, by flutting and clofing. any fighing superfluities, which are bred of the adustion of blood, whileft it dooth feare suffocation, the hart, I fay, doth force the minde and give him warning, that he would give more motion vnto the muscles, and cause greater breathing in and out, and that he would take in more ftore of cold aire, & thrust out more excrements. and that by often small breathings he would performe that that one great one doth effect. And therefore men of old time, called the word fufpirio fighing, of the ftraitnes of the breft. They do figh long & often, bicaufe the minde

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minde is alwaies upon that which causeth the passion.

Nature doth force the soule to send in by the hart more motive vertue to the muscles of the breast. It is most evident that wee doe breathe in and out by the arreries.

Vnder the name of pulse, the opening and shutting, the receiving and casting out breath is comprehended.

XXIII.

Why is a faufiege bardly digefied?

Bicause that through his lightnes, it dooth swim in the belly about the moist meat, nor doth not ioine with that meat where concoction is made, but swimmeth at the gizzard where appetite is, and not digestion. If you cast him into the water out of a mans bodie, it will not sincke but swimme about the water. For whilest meate is minced in it, it receives ha light aire, which causeth it to swimme about moist things: and therefore it is limber and slaggie, bicause it is participant of aire.

### XXIIII

Why doe wee make hot water before wee goe into the bath, and after that we have beene long in the bath, our wrine is cold?

And this is so in comparing it to some other. Vrine is of a luke warme qualitie, and moderately hotre: therefore out of the bath, bicause our bodie is colde, the vrine we make, as it were in comparison is hotte, yet in the bath, bicause the bodie is much hotter then the vrine, therefore the vrine dooth seeme colde, although it bee hotte after a sort. The which dooth appeare by that, that hee who dooth goe into a bath to get heate, if hee onely goe into hot water, it seemeth very hot, but if alreadie heated he go into it, it doth not seeme so hot.

### XXV.

Why doe wee finde sweete fresh water, when we digge neere the fen?

Bicaule

Bicause that in the sea that water which is thinnest and purest is fresh, that which is thicker is salt: the thin water therefore which runneth through the passages of the earth, is hidden in the earth, the which we finde when we dig. It is fresh, bicause that in winter it is drawn vp into the aire; the thicke and dried water doth become salt, but in the sea shores, bicause the passages be broad and wide, salt water is found.

XXVI

Why is well water warme in winter, and cold in fommer?

Bicause that every thing doth see from his contrary as from his enimie. It is manifest that cold is contrarie vnto heate, and doth destroic it. And therefore bicause that in sommer heate doth occupie the aire, the colde doth see into the bowels of the earth, and therefore causeth the water to become cold. But in the winter, bicause the colde hath greater swaie in the aire, then the heate againe sleeth to the same place, and so doth heate the water. For it is against the law of nature, that contraries should dwell togither in the same place and time.

XXVII.

Why are men of a smal stature commonly wifer than the talk.

Bicause that in small men the soule is well ioined and compacted togither in the whole bodie: in talk men it is extended in length. And therefore Homer doth describe Vhises to be short and wise, and Aiax talk and a foole.

XXVIII.

Why do we cast water into a mans face when he doth swoune, so make him come to himselfe againe?

Bicause that through the coldnes of the water, the heate may repaire to the hart to give strength.

XXIX.

Why do many fooles beges wife and frong children?

Bicause

Bicause that sooles when they are in the act of copulation, yeeld very much onto pleasure, and have their minde drowned in the bodse. Whereby it commeth to passe, that their seede being participant of great vertue, as well reasonable as naturall, doth cause such as are begotten to be the wifer. But it happeneth otherwise onto such as are wise and learned: for their seede wanteth much naturall vertue, and the force of wisedome maketh them to think on some other external cares, which weakeneth their intention in the act of venerie.

#### re differ to which XXXCO

Why doth not the dung of wilde beatts stinke so much, as she excrements of men?

Bicause they vie drie, and not superfluous meats, and have great exercise: yea the dung of some beafts are of a good sauour. But of all other the dung of a man doth sauor worst, bicause that men do vie manie moist meats out of season, and more than is needfull. Then they are lesse hot than other beasts, and are not so much exercised. And therefore seeing that it is not fully digested, nor evaporated, by reason of the abundance, but doth corrupt, therefore it is of a bad sauour.

### XXXI.

Why dosh mustard and such like sharpe shings, blister, and exulcerase the skinne, if is be pus on is, and when it is swallowed dosh not exulcerase the bellie?

Bicause they are dissoluted with the moisture of the bodie, and bicause they are chaunged and digested before they worke: and vpon the skin which is thin they have more time to worke.

### XXXIL

Why doth barley bran, seeing that it is cold, dissolve fleume?

Seeing that all colde doth make thicke, and hinder dissolution: truly I thinke, not bicause it doth coole, therefore it doth loose and dissolve, but bicause it doth

mours. And there are divers such kindes which worke contrarie vnto themselves, accidentally and by chance not principally. As the nature of Bees which are hot, do weaken an ague: not bicause they are hot, for the like dorh increase his like; but bicause they do expel naughtie humours from the vaines, and provoke wrine. So slower-deluce, and hysope are good for the pleurisse; although they be hot, yet they do cut those humours which do breede betwint the skin, and which girde the side. So the disease which is called Tetanus, is cured with hot water powred on it, which is bred of cold humours; it doth heale it not principally, and of the owne nature, but bicause it is heated.

### XXXIIL

Why do fome men puffe and blow when they make water ?

Bicause the bladder when it is full of water doth swel, and straiten the gut which is called the right gut: and when it is emptied, a winde which is in the gut desireth passage out. Some think that there is an agreement in these parts in the auoiding of the vrine.

### XXXIIII.

Why do some gape when they fee other men to gape ?

Bicause the nature of living creatures, and especially of such as want reason bath a likenes of consents, and affections. And therefore when one asse doth pisse, the others do stale likewise.

### XXXV.

Why doth one which is bleere eied, infect one who is whole, and yes he who is whole cannot heale the bleere eied?

Bicause the cies are soft and moist, and exposed vnto affections: then health receiveth an alteration of a finall cause, and sickness of a great and vehement: and that which is in a meane, is easier changed of that which is vehement, then contrariwise, the vehement &

great of the temperate & meane. And therefore bleerenes being a vehement and great disease, doth easilie turne health, which is a temperate and moderate state of the bodie.

#### XXXVI.

Why do money and an apple feeme greater in the water then

they be ?

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Bicause the water doth deceive the sight, and the water about them make them seems of one colour. So the Sunne, and the Moone, and the Planets, when they are seens neere vnto the point of the rising or falling, seems to be of a greater bignes then at other times; for they alter the aire about them with their qualitie.

### XXXVII.

Why when a man doth give a blow with a staffe far off, we see the blowe presently, but wee heare the sounde after, although the

found and the blowgo togeither ?

Bicause we have a sharper and quicker fight then hearing, and therefore the fight doth anticipate the stroke, and the hearing which is grosser, doth heare the sound slowlier. And by the same reason we may dissolve the doubt of thundring and lightning: for we see the lightning before we heare the thundring, although the thunder be first, or at the least togither with the lightning; and yet the sight being more subtile then the hearing, doth see the lightning before the care doth heare the thunder.

### XXXVIII

What is the reason seeing wee bee naked on our face, and clothed oner all the bodie, yet we can indure cold better on our face, then on the bodie?

Vie is the cause of it.

#### XXXXX

What is the reason that yellowe choler, which all a mans
life time is contained in a place which is called the bladder of
the choler.

choler, dosh nos ease out the fame bladder, feeing that it is subject which many alterations, and yet if it fall into a south but a small sime, which is a bodie which cannot easily suffer, it will presently ease him out?

Bicause nature hath so wrought, that it should onely remaine in that bodie and not hurt it. The name of nature is a great remedy against griese, as by many examples it can be produed. The infant is in the wombe of the mother nine moneths, and giveth no griese of heaft vnto hir: but if a light winde should breede there, it would presently cause a sharpe disease. The rough arteric is the onely receptacle of winde: but if a crumme should go amisse in it, it causeth either choking or a vehement cough, which could not be so if nature had not so prescribed.

had to the first some the contract the medical to

Why do some men go into a bath a thirst, & come out without thirst, and some contrarinise go in not a thirst, and come out a shirst?

Such as are drie, do waxe moist in the bath, and quench their thirst: for thirst commeth of drines, But those which are moist, and not thirstie, if they state long in a hot aire, are a thirst, bicause their moisture is dissoluted and spent with sweat.

XII

Who do some belch unfavorously after the eating of a radist.

and fome nos ?

I hey whose stomack and belly doth not abound with naughtie and superfluous humors, tending vnto seume, they have a sweete breath: but they whose stomacke doth abound, they have an unsauorie breath. A radish is hot, and doth cut and attenuate the grosenes of humours, and doth stirre up a winde of the humours, the which it doth cast foorth by belching. So dire which is not stirred doth not sauour at all, bur if it be stirred, yeeldeth

# OMALEXANDER.

yeeldeth a strong stinch. Those which thinke that a radish is of a stinking qualitie of himselfe, bicause it doth stinke out of the bodie if it be long kept, without doubt are deceived. For all men which do eate of them should have an unlawory breath, if that were so.

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the bodie waxe blacke and decay ?

Bicause that extreame cold doth drive in the naturall heare into the bodie, and so the putward fide of the bodie doth first growwan, then blacke, and almost like a corfe. They do fall and decay, bicause that nature being intentine in the other parts of the bodie, dothioine vnto it felfe that which is hot, and doth drive away and cast our that which is decaied and naught. The superficiall parts are altered, bicaufe that they be not verie fleshie nor verie hot. For in trees those leaves fall soo. neft in the winter, which are leaft hotin nature, & there fore are weaker and thinner. Those which fay, that the naturall heate doth presently in the beginning flee from the cold, as it were from an aduerfarie, into the internall parts of the bodie, and then gather it felfe againe & strengthen it felfe, & as it were with a supplie helpe those parts which were altered : and so either bicause in was on a sudden, or bisause great store of heare doth run back againe, and so burne the vttermost parts of the bodie, bicaufe that flaying there, there is much of it gathered togither, those I fay without all doubt do chinke amiffe which fay this. And he are a same and a same

interpretation of XLIII.

Why are fuch in great paine, which being verie cold, do heat sheir fingers ends, or ottermost parts of the bodie?

By reason of the sudden change of qualitie, much colde doth change into much heate. Whatsoever is suddenly done, doth bring griefe to nature. Whatsoever

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is fuddenly done agreeing vnto nature, doth delight nature : for mans bodie doth confift much in the maner of his disposition, THE LET ST. IN MOVEMEN W. AND THE BOOK

XLIHL made about sook son

Why doe fuch as ease pepper, or great morfels of bready exe? There is a proportion in them with those things which do outwardly ouercharge vs, or cause vs to have paine. Pepper and choler have a proportion with chornes: but fleume and bread with a heavie ftone. Such as haue a flomack, not full of superfluities, nor hot and fenfible, they are quickly bitten with the sharpenes of pepper: they do ftir vp the ftomacke to avoid & caft out that which grieueth, and fo do yexe. But fuch as haue a colde fromack, and full offleume, and feele not fo well, they do not yexe fo foone. The like doth happen voto them which do swallow great fore & gobbets of bread, the flomack is oppressed with the abundance & greatnes of bread: and nature doth not fuffer hir parts to be idle, when the feeleth any thing that doth burt hir. And therefore pepper, with his biting qualitie, which hath a proportion with yellowe choler, and bread with the waight of his quantitie, and also abundance of fleume; oppreffing vs within, do cause yexing. Sand is one Sheed XL Veriation amount of a setter

Why doe fuch paines as are in the nailes greenoufly comment versa via di renge per a diperi di la degli principa di transferio di

Bicaufe that the finewes which are in the fingers, with a peculiar kinde of superfluitie do breed the nails, as the teeth are in the gums. Therefore when the fenfible vertue of the finewes goeth to the extreame paris, and is there gathered togicher, like water flowing into a valley, without all doubt, the greater the alteration is, the greater griefe is felt.

XLVI

Why dorh a great deale of bread denounced haftily, by flaying from

from breathing drine away she yexe ? O Manage to a state of

· Bicaufe that preffing the flomacke, and driving it into a narrow roome, it caufeth that the meate which is hardened in it, to be preffed out into the belly, and fo the fromacke being difeharged, doth fraiethe yexe.

and the Reput of the XIVIPIDAL COME

Why do fuch as yexe, give vp yexing when they heare of any readign and land mornion beer

forrowfull matter ?

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Bicause they are intentiue vpon that which sorrowful newes brought, and therefore neglect to moone their breaft. And againe, feeing we do then hold our breath, and fo cause it to grow great in vs, it doth stay the yexe. C -- \$56 FF SEE, 4 : 3/F5/FF

XLVIIL

Why doe pictures to those which are neere them, shew their colours plaine, and unto shofe which fland a farre off, then some

bollow, and fome bending and hanging?

Bicaule the force of feeing is diffolued and stretched in a long distance, and therefore cannot see exactly the skill of colours, but doth fee the white colours bending. and the blacke hollow. For the white doth thine outwardly, and mooueth it felfe vnto that which is bright, but blacke as being darke, inwardly. fear white the is not axi X month of a restained

Why if cold water be an enimie vnto the finewes, is not hotte

nature.

water a friend and good, but yet that is also hursfull?

For if such a thing be hurtfull, the contrarie is profitable for contraries cannot worke the fame way, vpon the fame thing. But in truth hot as hot in his owne nature is not huttfull vnto the finewes, but in that that it is hor and moift, Such as haue their finewes hurt, their finewes bicause they are of quicke feeling, want much faftening, and bending, for they are drie of their owne nature: but the moistnes which is contrarie, doth mollifie them, and flaken them, and putrifie them. And foir is plaine that heate of it felfe is not hurtfull by K4

nature. A draught of horoile is good, bicaufeit batha Bicoule of a president to binding nature.

Why if apples be naught, bicause shey be cold and moist, is. not water fo too being of the fame qualitie?

Bicause water is more subtile than apples, and sooner purged, and therefore it doth not hart fo much : yea, it doth somewhat strengthen the bodie.

Because they are intensi I Leavis a which for our What is the reason that those things which have a harde concection, and are of a groffe bumour, are more eaflier dinefted, as beefe, than shofe which are of an eafier digestion, and not of

fo groffe a humour, as fift ?

62 11 101

Some attribute this vnto custome: fome thinke the cause to be in some secret hidden qualitie of nature. Some fay that by reason of exceeding hear, those means which are more digestive than is requisite, as being more murable, are burnt, and confumed through the great force of hear. And those meats which are not apt to digeft, as being hard to be changed, feeing they be not much changed, are only digefted. So ffraw asbeing apr to be altered, with great fire turneth into affice prefently:but the like is not in oke which is orderly burned.

Why are fuch as are ficke and in paine, pale ausmardis

Bicaufe that nature, as we have faid, doth penetrate even vnto the hart, togither with the blood. Anditis the blood which dorn heare the superficiall parts, and make them thin and cleere. A service trust con it is

LILL

Why doth cold wine grow in AE gyps which is a bot country? For the fame reason, Againe, the cold doth flee to the rootes of the vines, and doth make them colde: for the vines are more apt than other trees to seceine alteration. Mar to elect that Salely at a

LIIII.

Why doth has water cast inso a well, cause she water to be

very cold ?

Bicaufe the cold which is in the well, doth refift the heate: and bicaufe it is greater than the heate, it doth profecute the heate by all meanes, and doth flowe into the hot water very much, and fo make it cold.

Why, when a small beast dosh flee into our eies, do we shue the

other eie when we put him out ?

le the Constitute in inter Bicaufe that the spirit of feeing cannot go out by the eie which is fhur: but gathering it felfe togither, goeth with all abundance to the eie which is open, and doth fill it, and make it swell outward, and so that is driven out and expelled that is in him.

Why do fuch as are buffered fee fire?

Bicaule that the spirit of seeing, being made thinne and flender with the blow, doth waxe fire, and fo going into the aire, is feene as he is. The like doth happen when two flones, or two peeces of iron are firiken togither : for the aire betweene both is greatly rarefied and made thin, and becommeth fire. The like also doth happen in the cloudes. TIX

Why is not fire made by the firiking of all flones?

Bicause some of them do yeeld too much, and are too light, and as it were full of holes. For all firiking of the sire dorh not make it thin alike, and by reason of his lightnes it dothflee, and enter into euerie paffage. And therefore it is not all firiken at once, nor all waxe fire. The like doth happen by firiking of wood. And fire is made of the funne and water: for the broken beames of the funne against a glaffe, do waxe more and more fire, and do rebound vpward againe. 35.00

Why

LVIII.

Why do fuch as isch, defire hos ferment shings ?

Bicause that fleume, through whose grosnesse and cold stehing dothrise, doth dull the feeling of the skin.

LIX

Why are they also glad of baths?

Bicause heate doth disperse the sleume, and the

LX.

Why do the (boulders itch most?

Bicause they are colder than the foreparts, and therfore have more fleume in them. And that is the reason, that old men which are cold, are much troubled with the itch.

EXPERIOR

Why is the comming downe a ladder more easie, then the go-

ing up?

Bicause that in descending, the waight of the bodie doth of his owne nature mooue downward: in ascending, the strength doth labour in lifting vpward the waight of the bodie, So a stone is easier cast downwarde than vpward: for that which is heavie tendeth downwarde.

begoeninche cloudes.IIXI

Why do children cry when they are first borne?

Bicause their nature and senses, do as it were wander in a strange countrie: for they come out of a warme fost bodie of the wombe into the cold aire. And peraduenture also they are assaid of the light.

### ecclored a nor it light an acadec, nor

Why do Bees, Emmors, and Flyes, and fuch beafts as are called Infecta, die in oile.

Bicause their breathing hole is very narrow, which oile doth stop, and therefore they perish.

Wby

LXIIII o di luch sandauorda

Why do we coole has things by blowing on them, and heat cold

shings?

Bicause that breathing being hot, going out doth disfolue their qualitie. We coole hot things, bicause we do move and resolve their hot qualitie.

Carle and the contract of the DX very large and contact, the

Why doth flesh purifie in the night under the full moone?

Bicause then the aire is hot and moist, which disposition doth especially further putrefactions whereof it rises that if the heat and moistnes be small, concoction is wrought: if great, consuming: if heate prevaile, burning. The Moone also hath foure dispositions: the middle doth seeme to be moist, and after a fort hot: the full, hot after a manner and drie: in the wane, dry and cold: when shee is without light, colde and dry: for then shee wanteth the sume beames.

ment dictuic that it begad vix before, and therein

Why are such pale as are in paine and greefe?

Bicause that nature remembring that which dooth vexe her; fleeth with the bloode to the inwarde parts, which doth paint the skin: and it happeneth lesse vnto those, then to such as feare.

and bug chine of DXVIE dans one

Why are fuch red as are glad ? and and and

Bicause that nature doth meete that which delighteth of her owne accord, if it be without, as wee doe our friends and children. The blood dooth follow nature, which dieth the flesh with a red colour. Palenes commeth by the contrary voto this.

ing a very thin and sult IVX therefore negen it goes in

What is she reason, shas in a dead sleepe in she night, when we open our eies suddenly we see light?

Bicaule that the force and spirit of seeing being gathered togither in seeeping, & increased, doth rush out through

through the dark in great abundance, and being bright himfelfe, doth fee like vnto the light.

#### LXIX.

: Why do fuch as are ashamed, cast downe their eies?

Bicause the eies are the glasse of the minde a for we see the affections of the minde by the eies, as griese, anger, shame: bicause the minde cannot be are that which is not worthie of honor, for conscience sake, it causeth the muscles of the eies to be cast downe, as it were hiding himselfe.

## LXX.

Why can the eare endure all moissnes, the water excepted?

Bicause that the water being cold, is presently carried onto the sinew of hearing, and all colde is burtfull ynto the sinewes. Agains: Why before a great wind, are there as it were some running stars or lightnings going before to foretell it, and especially in a drie cleare element? Bicause that it began to blowe before, and yet it appeared not vnto vs, bicause we have grosse thicker bodies of hard senses. And therefore blowing the vpper aire, which is more thin and pure and heavenly, it doth convert into size, and therefore we see some of his sparkles. When it hath gotten a greater force, it mooneth this grosser aire which is about the earth, and so is heard and selt, and perceived.

## seconfe that named XXI deed that which delieft

which are neare was shem, although shey be very small ?

As such as we call purblinde, bicause they see best winking: eruly I thinke that the force and spirit of seeing is very thin and pure, and therefore when it goeth far is dissolved, and cannot reach vnto the object which is seene. It doth scarce see things neere by reason of his thinnesse and purenesse. There are some which see mery small things a far off, as certaine olde men. These

contrariwife, bicause they have a thicke spirit of seeing and much, it doth move and reach a great distance off, and by that meanes is attenuated and made thin, and apt and sit, to receive things visible. And so two contraries are dissolved.

#### LXXII.

Why are dogs onely about all other beasts, lined so togishes

after they couple?

Bicaule the necke of the matrix hath a narrow pallage, and the dogs yard doth swell in coupling, and the feede is cleaning in them, which happeneth vnto them by reason of their drinesse. The drinesse doth straiten the parts, and moisture doth make them thicke.

#### LXXIII.

Why are dogs onely mad in fummer?

By reason of their driedisposition: they are very drie by nature, and most of all in summer. And therefore when their humiditie is heated and dried, they are set on fire, and so they are mad like vnto frantike men. And therefore their some at the mouth is most drie and venemous: for it is manifest that it is inflamed either by often breathing, or by firite eies, or by gaping of their mouth, which they have alwaies open to take aire, or else bicause their taile groweth crooked with drinesse, and falleth away. They are most raging which are most drie. Some say that the canicular star, through his influence, doth cause them to go mad.

#### LXXIIII.

Why are they leffe grieved which become blinde on a fudden

and against their will than they which by election?

Bicause that such as on the sudden suffer it, have their minde turned another way. But those which by choise and election have their minde wholie vpon the thing which is cut, do know what they shall suffer, and therefore suffer greater torment.

LXXV.

#### LXXV.

Why do fuch as carrie burdens go finging?

Bicause the resonable soule is delighted with musick, and therfore turned vnto it, doth seele the lesse weight. And in like maner answer, when the question is asked, why in sunerals, bels, drums and flutes are vsed: and why mustitudes of men resort vnto such as mourne, or be sicke, and vse divers speeches vnto them: for the minde being occupied and intentiue to the words, doth seele the griefe lesse. And therfore Comedies and stage plaies were invented in times past, to withdrawe the minde.

#### LXXVL

Why do the Aethiopians for the most part die of an ague, and

why are shofe which are bleere eied vicerased?

They are most hot and drie, and there is a kinde of resolution of elements in them, and that little moisture, which is in them being consumed, it happeneth that the other elements are dissoluted. The heat goeth away for want of meate, the cold riseth vp through the absence of heate. Drinesse doth raigne through the consumption of moissness. And for that cause dead carcasses are cold and drie. And therfore Homer did know, that in dead bodies two elements did slee away, that is, the lightest, and thinnest, and two remained: there went away fire and aire, and there remained water & earth, that is, drines and coldness. They are exulcerated and blistered in the blearenesse of their cies, bicause that the blood is made full of choler, by reason of instammation, which doth eare the cies with his sharpness.

### LXXVII.

Why are fuch alwaies a thirft which have the dropfie?

Bicause that that moisture is salt, and passeth not away, but doth putrifie, and drie the mouth of the stomacke, and they have small severs withal. Further looke

how

how much more the belly is puffed up, so much the more the rest of the bodie is drier, seeing it is not naturally noutished, and doth waxe seebler and feebler. For much of the soode turneth into water & increaseth the discase.

LXXVIII.

Why do we in the beginning of a banques, and before we bee full fit close, and before the end of the bankes we take more rooms.

and shinke our felues preffed?

Bicaule that in the beginning al which fit, defire, and have an appetite vnto the meate, and therefore have an eie vnto that which is on the table, and all do fall to it. But after they are well fatisfied, one boweth one way, and another another, and have no care at all to that which is before them: and by this meanes after meate we take more roome.

### LXXIX.

Why in what seemer place we have haire, they waxe gray, sa-

sing under the armepits?

Bicause that place is hor, bicause it is thicke of arteries, sinewes and vaines, and is also thin, and therefore doth alwaies voide the excrements of sleume, and therefore do sweate alwaies.

#### LXXX.

Wherefore if fleume be cold, and shick, and clammie, and likewife blacke choler cold and shicke, but much leffe then fleume, yes

a quartaine aque is longer then a quotidian?

Bicause that sleume, although it be cold, and much of it, yet it is moist, and moistness is easily altered and changed. Blacke choler or melancholie is colde and drie, and therefore is hardly altered and changed. They deceive therefore with the likenes of cold, and abundance of choler, and do hide some contrarie qualitie. Furthermore, sleume is more agreeable vnto nature than melancholie: and therefore when a mans helth doth perish withhunger, nature doth turn sleume

Into nouriture. And therefore in a quotidian ague, the turneth all the profitable fleume into nourithment, and that which is vaprofitable putrifieth, and kindleth an ague.

LXXXI

Seeing that there are foure humours which do fometimes putrifie, where fore are there onely but three agues, and not foure?

Bicause that blood naturally is a nutriment of the bodie. And when it doth abound, it causeth a repletion onely. If it be corrupted, it remaineth blood no longer: for being heated, it is chaunged into yellow sleame. Therefore the other humours abounding, breede diseases, and especially about the skin, as serpentine vicers, and cankers, two kindes of seprosie: and when they be corrupted they breed agues.

LXXXII.

What is the reason that the externall parts of the bodie of lowers are sometimes colde, sometimes hot?

Bicaufe that when they conceine any griefe or dolor against their welbeloued, the naturall heate posterhaway with the bloud into the internall parts of the bodie : whereof it commeth that the outwarde parts are colde, and for the same cause they become pale and fad. But when they receive any good hope of their loner, or be greatly angrie, then the heate with the blood goeth to the skin, and becommeth hot and ruddie. And for the selfe same cause Painters do paint loue to be fomtime fad and gater, fomtime fleering and laughing, a verie boye and childe, bicaufe that luft is vehement, but durerh nor long. The affection in lawfull friends is durable, as in fathers towards their children, and wives roward their husbands, but love doth nor laft. And it happeneth of among such as are vnknowne the one to the other. The other disposition and affection is firme and stable and immoderate loue is vehement, & 002314 like

like vnto a mad man. They faine loue to have a firebrand, and wings, bicause that the mindes of louers are in suspense, and hang doubtfully, and are vnconstant like birds: and then their heate burneth their hart with an voceffant, and vehement care of that which they loue. He holdeth a fword in his right hand, and in his left a quiver with many arrowes, bicaufo that in the beginning love doth rife from one beame and glance of the eie : for he doth fee and defire at the selfe same time. And as soone as he dooth defire, the louer sendeth continuall beames of the eie towardes that which hee loueth. And those beames are like vnto arrowes, bicause the louer doth dart them into the bodie. There are arrowes in the quiver, bicause that those which loue, fende foorth fecret beames and glances of the eies. As the winde dooth kindle the fire, to custome dooth kindle loue : for properly loue dooth not rife of custome. For ifit were lo then of necessitie custome fhould alwaies breede loue; but the beginning of loue is sudden. He is naked, bicause that that desire happeneth without any meane. For no man loueth by another, nor privily, nor whom hee knoweth not. And therefore caruers doe sometime carue kings and gods naked for honours fake, thereby to thew that they haue no hidden vice lurking in their breafts, but that their thoughts are open and fincere. Loue is not one but many, either bicause there are divers lovers of things, (for they love not a like; and Plate faith, that loue is a beaft with many heads ) or els, bicaufe as the fame Plato faith, the fame loue falleth under many loues. Loue hath Venus for his mother, that is, fenfualitie and luft: and by the image of Venus they faine vnlawfull defire. Loue is faid to have been in loue with Erinnys a furie of hell, bicause rhat many haue loued wickedly, & have beene thral to wicked affections; as I haue

have declared in my fecond booke of Allegories, which I have made of those fained stories.

LXXXIII.

Why do fome die in a plague, and fome not?

This proceedeth of their disposition of bodie, For if a man haue a body full of euill humours, him the aire which is corrupted doth enter into, & corrupteth that little good humour which is left in him : and fo all their humours being corrupted, they must needs perish. But. if a man haue not many superfluities, and doth abound, with good humors, he is either not at all, or not much offended with the plague. That the disposition of the bodie is the cause of this effect, it doth appeare by the example of externall things. The oake is not eafily fubiect vnto alteration, nor is not eafily fet on fire. Reedes and rushes are much more apt to receive fire and flraw more then they. But if you take wet straw, and greene reedes, and verie drie oake powdred ouer with brim-Stone, you make that fit to burne which was not fit. By this example you may diffolue another question, how it commeth to passe, that wearines doth rather breede a quotidian ague, then that which breedeth of putrefaction, or that which is called Habituall: for we faie that this doth proceede from the disposition of the bodie: for he had not any superfluous naturall spirits . or humors. All things which are found and folid are drie. And the cause is in the same, why the heate of the sun doth procure fleepe in fome, and in other fome not. For he in whom there was much fleume, that being difperfed, doth moiften the head, and then he is in a fleepe: but such as have a drie head are kept more awake, bicause they are made more drie.

LXXXIIII.

Why doth the fun make a man blacke, & make dirs white. & make wave foft, and the dirs bard?

By reason of the disposition of the substances which do suffer. All humours, seume excepted, when they are heated about measure, do seeme blacke about the skin: but dirt being full either of saltpeter, or other salt liquor, when the sun hath consumed his dregs and filth, doth become white. Againe, when the sun hath drawn and stirred up the humiditie of the waxe, it is softned: but in dirt the sunne doth consume the humiditie, which is verie much, and so doth drie it and make it hard.

### LXXXIIII

Why do not such as are sicke of the iaundise go to siege, and why is their excrement white?

Bicause that yellowe choler is spred ouer al their bodie, as their eies do shew, and their skin: for it doth not flowe into the inward parts, as by nature it should, and by that reason their excrements is not coloured, nor dooth not prouoke them to the stoole with his sharpnes, which in the guts it should do. And therefore Physicke imitating nature, as all other arts do, when the patient is in danger, doth helpe the part affected.

#### LXXXV.

Why have such a very black skin for a time, which have a continual ague, after the time of indgement, which the Phistions do call Crisis?

That doth happen through continually ellow choler, the which being burnt and adust by the rigour of the disease, is turned into blacke choler. And so in that time of judgement, being driven and repulsed by nature to the skinne it doth die it. As also the skin is white in leprosies: that colour is hardly dissolved, by reason of the thickness of that humour.

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### LXXXVI.

Why doth blacke choler comming runto the paps, or to the shanke, worke a corrosion or gnawing or wasting, and in those

which are called melancholy, it dosh not worke the like although

is flow inso their braine?

Bicause there are many great vaines in the papper, by reason of ingendring of milke, and therefore store of that humour dooth tunne thither. And likewife vnto the the franke, bicaufe it goeth downwarde: but into the braine, bicause it is aboue, and also bicause it hath very small vaines, small store of choler doorh ascende, and which hath onely power and force to pricke, and not to gnaw and care. Moreover, the braine is coldies moift, whereby it is after a fort contrarie vnto the difpolition of blacke choler, and dooth mollifie it. That therefore which is properly called blacke choler, dooth breed an eating and gnawing canker in the pappes: in the fhanke, a bile or fore hard to bee cured, which of eating is called Nomades. In the braine it doth breede a mad fierce melancholy: but that which is not properly blacke choler, but a melancholy humour, caufeth a swelling only which is like a canker, but doth not gnaw and eate, and dooth alfo breeds quiet and peaceable melancholy. LXXXVII.

Why doe shofe vessels which of the Greekes are called Baucalia, (a kinde of vessels or drinking glasse with a narrowe streit mouth) when they are filled with water, make a certaine noise proper vnto themselves, and thereupon have their name given them, as other fained names of soundes, as in the water, Phlo-

elbos, and fuch like?

Bicause that when such a vessell is without water, it is filled with aire, which is a most thin bodie. And therefore when water is on a sudden powred into it, with his heafte it dooth followe and beate out the aire which is thinne, and exclude it vessely. For they cannot both stay in the glasse or vessell, vntill it be full. For the Philosophers doe shewethat two bodies cannot at one time possesse and occupie the same place. And therfore when

when the aire is on a sudden thrust vpwarde through straites, a sound or noise is made of necessitie, and that not one but many, for then is as it were a sight betwixt both: for the water doth presse downe the aire, and the aire lifteth vp the water: and although this bee done successively yet there is often times a noise.

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What is the reason that when we put our singer on the mouth of a watering garden potte, the water will not runne out at the bottome, and our singer being taken awaie, it runneth presently the

Bicause that when our finger is taken away from the mouth of the pot; the aire entring in dooth thrust downe the water, which of his owne nature doth goe downewarde, and so it goeth out at the bottome. And this is the reason of all mechanical lengins and instruments made by aire and water, as clocks and houre glasses made by water.

indiancac ago. Wh.XIX.XII getting brithe braine

Why doth both wine and water ginen out of season unto the sicke of an ague, cause a great distemperature of the braine: for these two are contrarie, for the water is cold, and the wine hot?

I say then that the wine being apt to ascende, doth burne the braine, at the time that it is disturbed and distempered with the ague. And wee see also many which are in health, if they wie much wine, to be skarse well in their wits. But water dooth stoppe the passages of the bodie, by which the spirits (which are the instruments of the soule) are dissoluted, and so cause them to become more thick and grosse, and more corrupt and putrissed, which breedeth the ague, And oftentimes water being ouercome by the ague, becommeth his nourishment. As we see in a smithes sorge, where a little water dooth kindle the fire, and make it same more.

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XC. and anie als

Why have women and children and gelded men shrill and lowd voices?

Bicause through abundance of humiditie, their arterie is not stretched wide. And therefore as a small flute or pipe giueth a small flender sounde, so the arterie in them which is streite and narrow: for it is the propertie of heate to make wide and loose, and women and Eunuches be cold.

Secretary and and forger dead DXn andie, is encured to re-

Why are children fivoken with a planet in the fummer ?

They are ficke of a weake and lingering ague, and their eies finke hollow in their head, and they become weake and feeble, and fleepe very little. And some of them have a flixe, bicaufe children are tender and eafily fuffer, and have great store of fleume in the head, as we have faid. And therefore the fleume being over much heated with great heats, and also putrified, doth inflame an ague. Whereupon the griftles of the braine are fer on fire, and therefore they fleepe little; and that fire descending by the arteries to the hart, and fetring on fire the lively spirits, dooth kindle an ague withour putrefaction. And feeing that much choler rifeth of an ague, thereby it falleth out, that that choler guawing and eating the belly and gurs, the flixe, or running of the belly arifeth. It is most plaine, that the cause of that afteration is in the braine, bicause that cooling medicines are applied vnto the head, & fuch as are good to quench that fire. And fome of ripe yeeres are ficke of the same difease, that is, such as have fleum or some choler heaped in the head, which dorh putrifie. By the very breathing therefore, and after a maner by the fire aire, the spirits are fet on fire.

XCIL ce is to few quatifu stories

Why are round olers or biles hard so be cored?

Bicause they breed of sharpe choler, and which hath a force of eating and gnawing. And bicause it doth run dropping and gnawing, it dooth make a rounde vicer: & for that cause it requireth medicaments which dry & burn. And this the phisitions do speak. The natural Philosophers do say, it cometh to passe, bicause there is no beginning where that mischieuous impostume dooth begin. For in a circle there is neither beginning not end, and when they are burned by the Phisition, then they take another shape.

XCIII.

Why is hony sweeze vnto all men, and yet seemeth bitter vn-

to fuch as have the iaundife?

Bicause they have much bitter choler over all the bodie, and which aboundeth in the toong. And therefore it happeneth when they doe cate honey, that the humour is stirred: and the taste it selfe when it hath felt the bitternes of choler, breedeth an imagination that the honey is bitter.

XCIIII.

Why have very angrie men firie eies ?

Bicause the blood about his hart is feruent, and his spirits hot. And therefore these spirits being very subtile and pure, are carried vpward, and by the eies which are cleere, they shine, and haue bloody vapours ascending with them. And thereupon their face appeareth red: which Homer not being ignorant of saith: And his eies were like a burning slame.

XCV.

Why dosh water cast rpon Serpenss cause shem to flee?

Bicause they are colde by nature, and dry, and have but little blood, and therefore they do flee from excessine coldnes. And that they be of this qualitie it appeareth, bicause they seeke for dens and secret places of the earth in winter, as being warme places. And at sun

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fet, they flee the aire for the most part as colder and agains in summer, bicause the bowels of the earth are cold, they flee from them, and go vnto hot places.

XCVI.

Why doth an egge breake if he be rofted, and never breake

if he be fod in water ?

Bicause that when his moistnes commeth neere vato the fire, he doth heare over much, and is burned, &
thereby doth breede much winde, the which through
the straitnes of the place, doth seeke a waie out, and
so breaking the shell doth see out. The like is in tubbes
and earthen vessels when new wine doth boile in them.
Also to much flame doth breake the shell of an egge
in rosting: which dothalso happen vnto earthen pots
ouer much heated and burnt. And therefore the
common people do wet an egge which they purpose to
roste. Hot water through his softnes doth separate
the humiditie by little and little, and doth disolve it
through the thinnesse and passages which are in the
shell.

### XCVIL

winke, and suffer such like alteration in the other sences?

Bicaute they being ouercome with the affect of that pleasure, they do comprehend it the better, as it were winking with their eies. They are not listed vp, nor do not carrie the minde abroad into the aire with the sences, whereby they should lesse feele those corporall affections.

#### XCVIII.

Why have some medicines of one kinde contrarie force, as experience doth teach: Martick doth expell, dissolve, and knit 3 Vineger doth bosh coole and heate?

Bicause there are some small indivisible bodies in them, not by consulton, but by interpolition. As sand moistened

moistened doth clod togither, and seemeth to be but one substance or bodie, but in truth there are manie small bodies in the sand. If this be so it is not absurd, that contrarie qualities and vertues should be hidden in Masticke in divers parts of it, and not confounded with it, bicause that nature hath given that lawe vnto those bodies.

## XCIX.

Why doth our prissie member swell, when we hurs one of our toes.

Bicause that nature, prouiding for those things which belong vnto the body, doth speeds to helpe those parts which are grieved. And bicause she hath the most prostable, and nourishing of all the humours for hir wagon, it is requisite when she doth descend vnto the toe, togither with the blood, that those vaines bee filled which are about the privile member, and those parts which are about those vessels which are called Adenes of the Greekes, which are little round kernels. Therefore an immoderate constipation doth cause inflammation and standing up: and that privile member is called Inguen, borrowing his denomination of the place it selfe.

Why hash not nature given birds a bladder for a receptacle
of wrine and kidneis?

Bicause they did want much moisture to give matter for feathers to growe, and that also they doe consume with the exercise officeing. Neither do they pisse at al: & when they drinke, they voide very moist dung.

Why have children gravell breeding in their bladder, and old men in the kidneis and raines of the backe?

Bicaule children have straite passages in the kidneis:

dinnis.

by the vrine from the kidneis, and from those receptacles which are made of the fashion of the Moone, even into the bladder of the vrine. The bladder having wide conduits and passages, giveth roome to the vrine to go out, and also place to the humour, whereof the gravell is ingendred, to waxe thicke and seate it selfe, as the custome of it is. But in old men it is contrarie, for they have large and wide passages of the raines of the backe and kidneis, whereof it commeth to passe, that the vrine may passe away, and the earthly humor congeale and sinke downe. The colour of the stone doth shew the humour whereof the stone doth rise.

CIL

Why if she stone do congeale and waxe hard shrough hease (children are hos) and by she same reason is is done in old men: for shere is not so much cold so be graunted as there is in yee or snow: for with extreame cold the hidness would perish, yet we do not reconstrary shings to dissolve the coldnes, but like things,

shat is, but things, as perfley, fennell, and fich like?

They fair then that it falleth out, that by exustion, parching and scorching, the stone doth crumble into small sand: As it is in earther vessels, which when they are over heated and tosted, they become sand. And by this meanes it falleth out, that small stones are voided togither with small sand in making of water. And so time it falleth out that cold drinkes do thrust out the stone, the kidness being stretched and casting it out, by a great laske, by vertue of easing the belly of his burthen. And besides this it falleth out, that an immoderate heate of the kidness or raines of the backe, by reason whereof the stone doth growe, is quenched with coldnes.

CIII.

Why is she caring of an vicer or byle very hard in she kidneis or bladder ?

Bicaule

Bicause that the vrine being sharpe, doth exulcerate the wound, which good and fit medicaments do couer and skin. Vicers are harder to be cured in the bladder, then in the kidness, bicause the vrine doth state in the bladder, and doth run away from the kidness.

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What is the reason that in bathing vessels, the hot water when it is slived, doth seems more hot unto us, and almost burne our bodies ?

Bicause that when we go downe into those bat he, the water it selfe doth suffer, that is, when the water doth heat our bodies, the water after a fort is made colde by vs. We have learned, that what soever doth worke in generation and corruption, the self same without all doubt doth suffer. I he water then being in some sort cooled, doth not heate alike, and we being accustomed vnto it, do not feele the heate as we did in the beginning, because that the immoderate heate of it is diminished. If then stirring the hot water, more faire hot water be added vnto it, which neither hath yet wrought, nor suffered any thing of the body which is in the water, that will seeme very hot and skalding, in respect that working it doth also suffer, and by little and little lose his heate, as the first did.

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How is it, if whatformer be mounted, is the hotter for it, and especially in a hot aire and place, yet when the aire is beaten and stirred, it doth freme the colder unto us, and especially in summer, when the heate of the sunne is most hot?

For this doth seeme contrary vnto the other: for hot water did seeme hotter vnto vs by mooning it, & heere the bot aire dooth seeme colder when it is stirred and moved. I say therefore that it is a common thing, that that which is most and principallest in any thing, either in qualitie or vertue, doth ouercome and change

that which is leffer & weker, & that which is the stroger doth somewhat suffer agains in doing. Therfore the hot water when it is verie hot, sticking vnto the hot bodie, is somewhat cooled, and doth not keepe the same qualicate. The aire then which doth compas vs about, being hot in summer, like vnto the water, compassing our bodies, is heated somewhat by vs, which are hot through the heate of the time of the yeere, and doth likewise agains heate vs: As linnen garments do, the which being first cold, then being made hot by vs, do then heate vs agains. When wee do then stir the aire, that ayre which was before heated by vs is driven away, and another which is not as yet heated doth succeede, which seemeth cold vnto vs.

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white, when they have left growing and are old, and others do not

feeme fuch which growe out of the ball?

Bicause that through the ball of the eie onely the spirit of seeing doth go out, the which is bright & cleere Therfore in the white of the eie, when the wound doth make thicke the passage of the couering of the eyes which is like a horne, the spirit of sight cannot issue out whereof it commeth to passe, that much of it being there gathered togisher, it doth make the wound light and cleere, and shewe the wounde white. And bicause that by reason of the thickening of the sight the spirit cannot go out, it falleth out that they cannot see.

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Why do chaffe and strawe keepe water bot, and snowe colde which are contraries in qualitie ?

Bicause the nature of chaffe doth want a manifest qualitie, and is said of some to be without qualitie. Seeing therefore that of their owne nature, they can easily

be mingled and confused with that which they are next vato, they easily also take the same nature vato them. And therefore being put vato hot things, they are easily hot, and do heate againe, and keepe hot; and contratie being made colde of the snow, and making the snow colde, do keepe his coldnes. So waxe and oile will easily be consumed, and made one with another thing, and are also without qualitie, and do helpe the qualitie of that which is mingled with them, as being made one with them.

#### CVIII

Why do the flars and heavens feeme cleereft in the bright winter time?

Bicaule the aire, either which doth compasse vs, or that which is higher, is made thinne and purged with windes and showers of raine, and by that meanes our sight doth see both further and cleerer. The like is manifestly seene in running rivers: for such things as are in them are farre better seene, then in thicke puddle standing water, where either nothing is seene, or consuledly.

#### CIX.

Why have we oftentimes a paine, and do quake in making of water?

Bicause that sharpe choler issuing out, and pricking the bladder of vrine, doth prouoke and stirre up the whole bodie to ease the part offended, and to expel the humour moderately. This doth happen most of all vnto children, bicause they have most excrements, by reason of their often filling.

Wherefore are griefes greater in the night, then in the day?

Bicause the minde being then idle and at rest with himselfe, is neither busied with the sight nor hearing, nor occupied with any other sence, & doth nothing at

all, nor is not vrged to any externall action, and theteupon is much more touched with the feeling of anie trouble or griefe. It is very plaine that the minde doth leffe feele griefes of the bodie, when he is drawn abroad to external! works, feeing that in ficknes and other fuch accidents, the companie and familiaritie of friends, and communication and tales relling, do make their troubles and griefes more light and tolerable. Men have marked that nature dothleast work by daie, in digeftion of meates, in altring of humours, in making of blood, in growing, and fuch like operations. But the minde is then most occupied in his actions, as in the five fences, in motions of the parts of the bodie, in imagination, in thought, in memorie : and contrarie in the night, then nature worketh most, and the minde leaft.

CXI.

Why doth a glaffe breake in the winter, if you powre any very

bot liquor into him?

Bicause that it is throughly affected and altred, by reason of the coldnes of the aire which doth compasse it. And therefore when we powre in very hot water on a fudden, and not heate the glaffe before, the heat doth fight and ftrine with the cold which was in it; the cold with the aire prefently fleeing, caufeth the breaking of the glaffe. It must be granted, that there be certaine small holes and passages in the glasse, which do holde and receive the pureft and thinnest parts of the aire. the which although we do not fee with our eies, and with sence, yet we cannot denie but by nature there they be. Others do fay, that bicaufe the glaffe is verie cold, then it is very drie also, and therefore that which is the fubtilest partinit, whether it be a humour or the aire, is thrust out, and doth as it were vanish away, and fo is made apt to breake. And fo it is in verie dry wood. And

And so Hipporates did say, that the vaines were broken with cold. That therefore which is very hot, sinding the glasse to be such, drying it more and more, dooth cause him to breake. If it had beene before wet ouer, and heated a little, it would not have beene hurt: as wee see wrastlers annointed before they go to wrastle. For whe drines falleth into those passages and invisible holes, it sleeth quickly with the aire, and the softness of the glasse giving place vnto the heate, doth not easily breake. It is easily seen that glasse hath those passages, by earthen pots, into which if you powre water, and dawbe them with pitch, yet the humour will woose out. You may also see in winter time a smoake or sume breake out of a glasse, when you cast water into him.

CXII.

Why are not children and especially infants, so easily shaken

and put out of joint, as men?

By reason of their softnes, yeelding vnto the earth, they do diffolue his hardnes, that it can worke no further. Men therefore, having a hard bodie, bicause they do relift the hardnes of the earth or stone, they doe increase the vehemencie of the blowe, and doe force the ftone to worke against themselves, as being hard themselues. And for the same reason a spunge yeelding is not broken: but a glaffe, an earthen potte, or any fuch other hard bodie is broken with a fall. And by this also we learne why a vehement blaft of winde dooth ouerthrowe an oake, and not a reede, bicaufe that an oake being hard and ftrong and great, doth refift the winde, and so make his force more strong: but the reede being light and foft and fmall, yeelding hither and thither to the winde, doth breake his force. So a wraftler frining against his companion doth increase his force, & yeelding fometimes, and bowing with him, dooth fooner breake his vehemencie.

nate and less of CXIII.

Why do infants hearing the nurses singing, cease their cry-

ing, and fleepe prefently after?

Bicause that the substance of musicke, as being a science (and all other arts) is engrassed naturally in the minde, as heate is in fire. As Plato doth say, our mindes do remember sciences and not learne them. And therfore the minde hearing such a song, in that that hee doth remember, causeth the infant to be quiet, and in that that he taketh pleasure it doth draw on sleepe. For not being infected with the companie of the bodie, he perceiveth those sciences verie plainly, and being somwhat drownd in the bodie, falleth into some oblivion of them.

### CXIIIL

Why do marfes rocke and moone children when they woulde

drawe them to fleepe ?

To the end that the humors being scattered by moouing, may mooue the braine: but those of more yeeres cannot endure this.

### CXV.

Why do fome drunk ards fee double ?

Bicause that the muscles of the cies being more or lesse filled, and by the selfe same meanes weake and seeble, do draw and wrest one cie vpward, and the other downward: and by that meanes the cie beames do not looke one way at once, but towards divers places and bodies: and therefore each of the cies vsing a private office and dutie of seeing, doth cause a double fight.

### CXVI.

Why are boyes apt to change their voice about fourteens

yeeres of age?

Bicause that then nature doth cause a great and sudden change of age. Experience producth this to be true:

true: for at that time we may fee that womens paps de grow great, to hold and gather milke, and also those places which are about the hips, in which the young fruit should remaine. Likewise mens breasts and shoulders which then beare great and heavie burthens. Also their stones in which the feed may increase and abide: and his privie member, to lecout the feede with eafe. Further al the whole bodie is made bigger and dilated, as the alteration and change of euery part doth reftifie. And the harshnes of the voice and hoarlenes: for the rough arterie or windepipe being made wide in the beginning, and the exterior or outward part within ynequall even to the throte, the aire going out at that rough vnequal and vneuen pipe, doth become vnequal and sharpe, and after a fort hoarse, Like vnto the voice of a goate, whereof it hath his name Branchus. The fame doth happen vnto them into whose rough atterie anie distillation doth flowe. It happeneth by reason of the dropping humiditie, that a light small skinne filled vnequally, caufeth an vneuen going foorth of the spirit & aire. Vnderstand that the windepipe of goates is such, by reason of the abundance of humiditie. The like doth happen voto all fuch, as nature hath given a rough arterie, as vnto Cranes, After the yeeres of fowrteene they leave off that voice, bicause the atterie is made wider, and receiveth his naturall evennesse and equalitie.

CXVII

Why dosh syle being drunke, cause vs so vomis, and especially yellow choler?

Bicause that seeing it is light, and ascendeth voward, it prouoketh the nutriment in the stomacke, and listeth it vp. And so the stomacke being grieved, summoneth the elective vertue to vomite, and especially choser, bicause that it is light, and consistent of subtile parts,

M

and

and therfore is the sooner convened vpward. And it is most plaine that oile is light and carried vpwarde; for when it is mingled with any moss thing, it runneth vato the highest roome.

#### CXVIII

Why doth not cyle mingle with moift shings ?

Bicause that being pliant, lost, and constipat in it selfe, it cannot be divided into parts, and so it cannot be mingled. Neither if it be cast vpon the earth, can it quickly enter into it.

#### CXIX.

Why is waser and onle frozen in cold, wine and vineger not ?
Bicause that oyle being without all qualitie, and fit
to be confounded with any thing, is cold quickly, and
so extreamly, that it is most cold. Water being cold of
nature, doth easily freeze, when it is made colder then
his ownen ature. Wine being hor and of subtile parts, is
not so some colde. But vineger being of most subtile
parts, suffereth no freezing.

Why do contrary things in qualitie, bring foorth the fame

That which is moist, is hardened and bound alike of heate and of colde: snowe and liquor do freeze with colder a plaister and the gravell in the bladder, are made hard with heate. That is so in deede, but by a divers action. The heate doth consume and eate the aboundance of moisture: but the colde stopping and shutting, with his overmuch thicknes, doth wring out the filthie humiditie : like as a spunge, wrung with the hand, doth cast out the water which it hath in his pores and small passages.

CXXI

Why dosh a shaking or quincring coase of centimes when any fearefull matter doth channes, as a great noise or cracke made with

wish fudden downfall of water, or great tree ?

Bicause that oftentimes the humours being digested and consumed with time, and made thinne and weake, all the heate, vehemently and suddenly, and sharpelie sleeing into the inward parts of the bodie, consuming the humour which causeth the discase, doth disolue it. I reacle hath this effect and many such like, which are hot and drie, when they are taken after concostion.

EXXII.

Why do fuch fall which surne rounds, if shey be not vied to do it?

Bicause they do disturbe the animall spirits which are in the braine, and toffe them vp and down togither with humidities. They then be made leffe apt and fit to receive the fensible and motive power, and do not fuffer any action to go into the mulcles and finewes wherby it falleth out, that the waight of the bodie, as not being borne vp nor supported by the soule, is throwne to the earth; and for the fame caufe they fee darknes, bicaufe the spirit of seeing is disturbed and troubled, & can not work like to the other fences, But this doth not happen voto such as are accustomed to turne mode. rately, and by little and little. Custome doth breede this; for the foule and nature are not ftrangers the one to the other but in time are as it were reconciled. For that which is doneby little and by little, and without intercession, is hidden from the sence. And after that it hath often escaped, falleth not as a ftrange thing voto nature, who was woont to receive it.

CXXIIL

Why do feele glasses shine socleerely?

Bicause they are lined on the inside with white leade, whose nature is shining, the which being put to the glas which is also shining, doth shine much more, & casting his beames through the passages of the glasse, doth double

double that which is in the superficial part of the glasse, and without the body of the glasse, and by that meanes the glasse is very shining and cleere.

CXXIIII

. Why do we fee our felues in glaffes and olcere waters?

Bicause that the qualitie of the sight passing vnto eleer bright bodies, by a reflexion doth return again by the beams of the eies, to the image of him who looketh on it. That qualities do go foorth and passe from the face, as is not absurd, they do shew, which remain neere vnto trees, bicause they are woont to looke greene. For the greene quality of greene leaves, passeth to the face it selfe: likewise going into the running water, doth make it to shewgreene.

CXXV.

Why doth hard dens, and hollow places, and high places, fend

backe the likenes and found of the voice ?

Bicaufe that fuch places also, by a reflexion do fende backe the image of a found. For the voice doth beate the aire, the aire the place, the which the more it is bearen, the more it doth beare, and thereby doth cause the more vehement found of the voice. Moist places, and as it were lofe, yeelding vnto the ftroake, and diffoluing it, give no founde againe. For according vnto the qualitie and quantitie of the ftroake, the qualitie and quantitie of the voice is given, which is called an Eccho. Some do idlely fable that the is a goddefferfome faie that Pan was in love with hir, which without doubt is falle. He was some wife man who did first defire and fearch out the cause of that voice; and as they which loue and cannot enjoy their loue are gricued, fo in like maner was he very forie vntill he found out the folution of that cause. As Endymien also who first founde out the course of the Moone, watching nights, and obser-uing hir course, and searching hir motion, did seepe in

the day time. And therefore they do fable that he was beloued of the Moone, and that the came to him when he was a fleepe, bicaule the did give vnto the Philosopher, the folution of the cause of hir selfe. They say also that he was a shepheard, bicause that in deserts and high places he did marke the course of the Moone. And they give him also a pipe, bicause that high places are blowen with wind: or else bicause he sought out the confonancie of figures. Prometheus also being a wise man, sought out the cause of the starre which is called the Algle in the firmament, his nature and place, and when he was as it were wasted away with the desire of learning, then at the last hee rested, when Hercules did dissolve vnto him all doubts with his wisedome.

## CXXVI.

What is the reason that if you cast a stone into a standing water which is on the overmost part of the earth, it maketh manie circles, and not if the water be deepe in the earth?

Bicause that the stone with vehemencie of the cast, doth pursue and followe the water from every part of it, untill the stone come to the bottome. But if there be a very great vehemencie in the throwe, the circle is the greater, the stone going downe unto the earth, and drawing downe the water with it, causeth manie circles. For first of all it doth drive the overmost and superficiall part of the water into many parts, & so going down alwaies unto the bottom, againe dividing the water, it maketh another circle. And this is done successively, until the stone resteth. And bicause the veheme-cie of the stone is stackned still as he goeth down, of necessitie the last circle is lesser then the first, bicause that with the stone and also with the blow, the water is divided.

CXXVII.

Why do four shinks that Laughter proceedesh from the

pleent . offerning shus it is not like, shat they laugh not much, shofe fileene is corrupted, as shey do whofe fileene is founde, but

Tay that fuch are very fad?

Truly I thinke that the cause of laughter is accidencally, and not properly in the spleene; for if it be found and perfect, it doth draw from the liver all melancholy humour. Whereof it proceedeth, that when the pure blood without any dregs doth goe both throughout all the bodie, and also into the braine, it doth delight both nature and the minde, and doth make men metric like vnto wine, and bring men to a quietnes and tranquillity, and so of that laughter is mooued.

CXXVIII.

Why do not Mules bring fourth young ones?

Bicause they do consist of a divers kinde of beasts, and so then the mixtion of seede differing in qualitie and quantitie, begetting a certaine other thing besides that which is sirst, doth marre and abolish the nature of those things which first were. As the mingling of white and black, abolishing the colour of the extreams, breedeth another colour which is darke and dunne, which is none at all of the extreames. Therefore the ingendring qualitie is abolished, and the aptness of receiving formes.

CXXIX

Why are fuch as are deafe by nature dumme alfo?

Bicause they cannot speake, and expresse that which they never hard. Some Physitions do say, that there is one knitting and vniting of sinewes belonging wato the toong and to the cares, and therefore they are of the like disposition. But such as are dumme by an accident, are not deafe at all, for there then risethal locall passion.

CXXX.

Why are some stiffe after meas which were long fasting t Bicaule

Bicaufe they abound with choler, and fo do heape v a fowre sharpe humour. Therefore the parts of the bodie being nourished after meate, drive away from them the choler vato the skin, and fo that fliffenes dothrife, that is, the choler gnawing and biting those parts, and ftirring them vp to purfue himfelfe.

CXXXI

Why do not frine crie when they be carried with their from upward?

Bicaule that about all other beafts they bende more the other to the earth. They delight in filth, & that they feeke : and therefore in that fudden chaunge of their face, they be as it were strangers, and being amazed with fo much light, keepe that filence. Some fay that their windpipe doth close togither, by reason of the Araitnes of it, when they lie with their face voward.

CXXXII Why are frime delighted wish dive ?

As the Philitions do lay, they are naturally delighted with it, bicaufe they have a great liver, in which defire is. Aristoile faith, that the widenes of his snowe is the cause: for he hath a smelling which doth diffolge it selfe. and as it were friuing with flinch,

CXXXIII

Why dosh isching rife, when an ulcer dosh waxe whole, ar lemme cease ?

Bicause the pare which is healed and made sounde, doth pursue the reliques of the humour, which remainech there against nature, and which was the cause of the boile: and fo going out through the skin, and difsoluing it selfe, dorh cause the itch.

CXXXIIII

Why we shofe difeafes or accidents longest and most grienous, For two caules: bicaule the running or fluxion is hea-

ped

ped up at one cie onely: for what locuer is divided into many, is weaker then it felfe, and of leffer frength : or els bicaufe that when the whole eie doth moue himfelf in his actions, fo oft he doth force the ficke eie to mone alfo: and the medicaments of every diseased part doth confift in quietnes.

CXXXV.

Why doth man freeze more of ener, and more vehemently then

other beafts }

Bicaufe he doth vie more meates and drinkes, and of more diners forts, and that more then is requifite, the which when he cannot digest as he would, it doth ga-ther togither much aire and spirits, by reason of much bumiditie : that spirit then being very subtile, ascending vnto the head, it forceth a man oft to avoide it, & fo causeth meezing. And it maketh a noise, bicause a vehement spirit or breath passeth through the conduites of the noftrils, as a belching by the flomacke, or fare from the belly, the voice by the throte, and a found by the cares.

CXXXVI.

Why do dead mens haires and nailes grow for a time?"

Bicause that the flesh rosting, withering, and falling away, that flesh which was hidden about the roots of the haire, doth new appears and deceive, and caule an imagination that the haire did grow. And some fay that ingroweth in very deede, bicause that dead carcaffes are refolued in the beginning into many excrements & Superfluities by reason of the putrefaction which commeth voto them. These going out to the ouermost part of the bodie, by some passages & pores, doe increase the growing of the foresaid haire.

CXXXVII.
Why have children tasher then men certains white spots in be mailes of their fingers pather than in their sees ?

Bicante

Bicanfe they do breed of fleume, and children doe abound with fleume more then men, bicause they are fatter and greater enters. And the feet by reason of walking and motion, doe disolve superfluities more then the hands; and therefore those spots do not appeare in the nailes of the feete.

## CXXXVIII

Why dosh not the baire in the feet quickly grow gray?

For the same reason, bicause that through great mouing and walking, they do disperse and dissolve the supersuitie of sleume, which doth breed graynes. And the haire of the secret parts doth growe gray very late, bicause of the heat of that place, and bicause that in carnall copulation it doth dissolve sleume also.

## CXXXIX

Why doe very many beafts wag their tailes when they fee sheir friends, and a Bon and a bull bease sheir fide, when they are

angrie ?

Bicause they have the marrowe of the blacke reaching vnto the taile, which hath the force of mooning in it. The imagination acknowledging that which is knowen vnto him, as it were with a hand, as it doth happen in men, doth force them to moone the taile, which doth manifestly shew some secret force to be within the, which doth acknowledg that which they ought. In the anger of lions & buls, nature doth consent vnto the minde, and doth inforce it to be greatly mooned, as men doe sometimes when they be angrie, beate their hands or other parts. When the minde cannot revenge vpon that which doth hurt, it doth presently seeke out some other solace, and doth cure his affection with some stroake or blow.

CXL.

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Bicaule

Bicaule it hath the force of expelling, and doth wipe away and diffolue the excrement of fleume, and all vaprofitable operation which is gathered togither, throgh the weaknes of the part, or cruditie of the forc.

CXLL

Why doth haire never grow in mans vicers or biles?

Bicause a man hath a thicke skin, as it is seene by the softnes and thisnes of his haires. And seeing the skarre is thicker then the skin it selfe, it doth stop up the passages, by which the haire should growe. Horses have thinner skins, as it is seene by their thicke haire, and therefore all passages are not stopped in their wounds, and sores. And after that the excrements which were gathered togither, have broken a passage through those small pores, the brite doth grow.

What is the reason that such as are bitten with a snake, being most exceedingly a thirst, do quench their thirst, and not in-

crease is, by drinking of treacle, which is dry and hos?

Il saie then that it doth not quench the thirst, by reason of his qualitie, but by some mutual sympathic and
consent, & natural reason. That is a kind of counterpoison and preservative which is made of divers forts
of hearbes, which have some kinde of consent & agreement with all the parts of the body. As Dictamum, Dettander, or garden ginger, hath a propertie conservative of the hart, Agrimonicor Liverwoort, with the liuer, Stonewoort or singer ferne with the spleene, Parsley with the mouth of the belly, Hyssope with the sugs,
Elicampane with the raines of the backe, Rue with the
neck, Bitterwoort with the brain, & Siler mantanan with
the bladder of vrine. Everie one of these drawne as it
were with the sweetnes of honey, doth draw that which
is best for his safety. Amongst all which, the flesh of som
vipers is mingled, which hath a certain mutual affection

which we call Antipathiam, a contrarietie of naturall qualities, against every venemous beast and corruptible vertue. These being distributed into every part, they suffer not to work that effect, which doth threaten corruption. For they do resist like vnto lawfull soldiers, who have taken armes for the defence of their countrey.

#### CXLIII.

Why is forsume painted with a double forehead, the one fide bald, and the other hairie?

The balde fide fignifieth aduerficie, and the hais

#### CXLIII

Wby have fome commended flarserie ?

Bicause flatterie setteth soorth before our eies, that which wee ought to be, although not that which we be.

## CXLV.

Wherefore should Versue be painted girded?

To declare that vertuous men ought not to be flothfull, but diligent, and alwaies in action.

## GXLVI.

Why did the ancients face that is was better to fall into the hands of a Rauen then of a flatterer?

Bicaufe Rauens do not eate vs vntill we be dead, but flatterers do deuour vs aliue.

## CXLVII.

Why have choleriche men beards before others?

Bicause they are hot, and their pores large and wide.

## CXLVIII

Whereof doth is proceede that such as have the hicket, do ease themselves by retaining their breath?

The breath retained doth heate the interior parts of the bodie, and the hicket proceedeth of nothing elfe but of cold.

CXLIX

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## CXLIX

Wherof doth is proceed, that old men remember wel that which shey have scene and done in sheir youth, and do forget such

whings as they fee and do in their age?

Things learned in youth, have already taken a certain coote and habitude in the person: but things learned in age are forgotten, bicause the sences are weakened in them.

## CL

What kinde of conetoufnes is bell ?

The couctoufnes of time, when it is emploied as it ought to be.

## CLI

Why in our life compared unto a frage place?

Bicaule the vnhonest do occupie the place of the honeft, and the woorst fort the roome of the good.

Why do Dolphins, when they appeere about the water, figni-

fie fome frome or sempett to come?

Bicause that at the beginning of the tempest there do rife from the bottom of the fea certaine hot exhalstions and vapors, which doe hear the Dolphins, which doth cause them to mount to seeke for cold.

Wherefore are things more quiet in the night, then in the

day?

The motion of the aire and the coldnes of the night is the cause thereof, which coldnes doth stay and hinder the motion.

## CLIIIL

Wherefore did she Romaines call Fabius Maximus she sar-ges of she people, and Marcellus she fourd?

Bicause the one gave himselfe to maintain the common wealth, and the other was eger and thatpe to reuenge the enimies of his countrey. And yet they were

by the Senate joined togither, bicause the grauitie of the one should moderate the courage and boldnes of the other.

#### CLV.

Why dosh the shining of the moone hurs the head?

Bicaufe it mooueth the humours of the braine, and cannot afterward resolue them.

## CLVI.

If water do not navish, why do men drinke is?

Water caufeth the nutriment to spread throughout

## CLVII.

Why is fneezing good ?

To purge the braine, as the milte is purged by the cough.

## CLVIII

What is the feate of the affections in the bodie?

loy dwelleth in the spleen, anger in the gaule, fear in the hart, lechery in the liver.

## CLIX.

Why is folden water bester shen colde?

Boild or fodden water hath leffe ventofities, and is more light and fubtile, bicaufe the earth and heatie fubftance is separated from it.

## CLX.

Wherefore are the waters of marrifhes and ponds enill?

Bicaule they are flegmatike and do corrupt in fommer time, bicaule the finest of the water is converted into vapours, and the earthings doth remaine.

## CLXL

Why be fludious and learned men foone bald?

It proceedeth of the weaknes of their spirits, or bieause want of digestion causeth sleame to abounde in them.

CLXIL

CLXII.

Why doth soo long watching make the braine feeble?

Bicaufe it doth multiplie choler, the which by that
meanes doth drie and extenuate vs.

CLXIII

Why be fieele glaffes bester for the fight then other glaffes?

Bicause steele is harder, and doth represent vnto vs

more substantially the aire which receiveth the light.

CLXIII

Whesher dosh love shew hir greatest force, either in making the foole to become wife, or the wife to become a foole?

In giving wifedome to him which hath it not, bicaufe it is more hard to build then to pul downe, bicaufe that ordinarily lone and follie are but an alienation of the minde.

CLXV.

Why is oner great labour nought for the fight?

Breause it drieth the blood too much.

CXLVI.

Why is goates milke accompred best for the stomacke?

Bicause it is thicke, and not slimite, bicause they feed on bowes and wood rather then on graffe.

Why doth too much griefe and vexation bring age?

Bicause it drieth, & age is nothing else but a drought.

CXLVIII.

Why is he most meriest who hash the shickest blood?

The blood which is far and thicke, makerh the spirits firme and constant, wherein consisteth the force of all creatures.

CLXIX

Inyour opinion which is hardest so obtains the love of one, or so keeps is being obtained to

To keepe and maintaine it being gotten, by reason of the inconstantie of women, which are quickly angrie

and soone wearie of one, lightly found and slipperie to keepe.

CLXX.

Why do Serpenss flee from the hearbe called Rue?

Bicause a Serpent is cold, drie and full of sinewes, & the hearb Rue of a contrarie nature.

CLXXI.

Why is a Capon besser to be easen shen a Cooke?

The Capon leefeth not his moistnes, bicause he treadeth not the hens as the Cooke dorb, and therefore is better.

CLXXIL

Why do we finell a thing leffer in the winter then in the fone-

Bicause the aire is thicker and lesse moouable.

Why dosh haire burne fo quickly? Bicause is is drie and cold.

CLXXIII.

Why is love compared onto a labyrinsh?

Bicause the entrie and comming in is case, and the going out impossible or very hard.

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